

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: June 23, 2003, 15:52:29 ; Search time 40 Seconds

(without alignments)
252.353 Million cell updates/sec

Title: US-09-766-396-26

Sequence: 1 MPLSPGLLLILSGATATAA.....ARRDRMPCRFNFWKTFSSCK 105

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 283224 seqs, 96134422 residues

Total number of hits satisfying chosen parameters: 283224

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Database :
1: p1r1:*
2: p1r2:*
3: p1r3:*
4: p1r4:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	554	100.0	105	2 JC5414	cortistatin-like p
2	295	53.2	112	2 S67489	cortistatin precu
3	112.5	20.3	103	2 JG6167	somatostatin-14 (p
4	99	17.9	116	1 RIBOS1	somatostatin precu
5	95	17.1	116	1 RIBOS1	somatostatin precu
6	92.5	16.7	116	1 RIBOS1	somatostatin precu
7	92.5	16.7	116	1 S20630	somatostatin precu
8	91.5	16.5	121	1 RIBOS1	somatostatin I pre
9	89	16.1	116	1 RIBOS1	somatostatin I pre
10	89	16.1	116	1 A28968	somatostatin I pre
11	87	15.7	92	1 RIBOS1	somatostatin I pre
12	86	15.5	115	2 JC6166	somatostatin-14 pr
13	85	15.3	34	2 A32271	somatostatin-relat
14	84.5	15.3	114	1 RIBOS1	somatostatin-14 pr
15	83	15.0	114	2 I50798	preprosomatostatin
16	80	14.4	447	2 A13459	hypothetical prote
17	80	14.4	447	2 A13459	hypothetical prote
18	79.5	14.4	73	2 S00169	somatostatin II pr
19	79	14.3	37	2 A32000	somatostatin II pr
20	78	14.1	28	2 A61322	somatostatin-28 -
21	77	13.9	665	2 AH0411	ferrichrome transp
22	76	13.7	115	2 I51064	somatostatin II pr
23	75	13.7	1051	2 T48933	MD repeat domain p
24	75	13.5	125	1 RIBOS2	somatostatin II pr
25	74	13.4	2055	2 T00093	hypothetical prote
26	71.5	12.9	253	2 S61499	transcription acti
27	71	12.8	228	2 A31403	membrane protein B
28	70	12.6	14	2 C60414	somatostatin - sll
29	70	12.6	14	2 B60842	somatostatin I - C

30	70	12.6	14	2 A60840	somatostatin I - E
31	70	12.6	14	2 S00172	somatostatin I - s
32	70	12.6	1801	2 T26774	hypothetical prote
33	69.5	12.5	882	2 H83754	family 3 glycoside
34	69	12.5	252	2 AD2716	ribonuclease (limp
35	69	12.5	262	2 G97497	ribonuclease precu
36	69	12.5	535	1 T18864	phosphoprotein pho
37	69	12.5	664	2 D83231	hypothetical prote
38	68.5	12.4	74	2 S00166	somatostatin II pr
39	68.5	12.4	1493	2 T10757	MAP kinase kinase
40	68	12.3	862	2 H82182	conserved hypothet
41	68	12.3	950	2 A82986	adenylate cyclase
42	67.5	12.2	374	2 F87280	esterase A (import
43	67	12.1	212	2 T44591	hypothetical prote
44	67	12.1	462	2 JC3462	gastric inhibitory
45	66.5	12.0	233	2 T36942	probable DNA-bind1

ALIGNMENTS

RESULT 1

JC5414
cortistatin-like protein precursor - human
C:Species: Homo sapiens (man)
C:Date: 10-Jun-1997 #sequence_revision 18-Jul-1997 #text_change 20-Jun-2000
C:Accession: JC5414
R:Fukushima, S.; Kitada, C.; Takekawa, S.; Kizawa, H.; Sakamoto, J.; Miyamoto, M.; Hin
Biochem. Biophys. Res. Commun. 232, 157-163, 1997
A:Title: Identification and characterization of a novel human cortistatin-like peptid
A:Reference number: JC5414; MUID:97236300; PMID:9125122
A:Accession: JC5414
A:Molecule type: mRNA
A:Residues: 1-105 <FUK>

A:Cross-References: DBJ:AB000263; NID:g2055231; PIDN:BA19770.1; PID:g2055232
A:Experimental source: brain
A:Comment: This protein binds to somatostatin receptors on a pituitary GH4 cell and i
C:Superfamily: somatostatin
F:1-20/Domain: signal sequence #status predicted <SIG>
F:97-100/Region: somatostatin receptor binding #status predicted

Query Match	Best Local Similarity	Score	DB 2:	Length	Matches	Conservative	Mismatches	Indels	Gaps
100.0%	100.0%	554	DB 2:	105	105	105	0	0	0
QY	1	MPLSPGLLLILSGATATAALPLEGGPTGRSEHMOEAGIRKSSLLFFLAWFWTSQA	60						
DB	1	MPLSPGLLLILSGATATAALPLEGGPTGRSEHMOEAGIRKSSLLFFLAWFWTSQA	60						
QY	61	SAGPLIGEARREVARROGAPPOOSARDRMPCRFNFWKTFSSCK	105						
DB	61	SAGPLIGEARREVARROGAPPOOSARDRMPCRFNFWKTFSSCK	105						

RESULT 2

S67489
cortistatin precursor - rat

C:Species: Rattus norvegicus (Norway rat)
C:Date: 28-Oct-1996 #sequence_revision 27-Feb-1997 #text_change 16-Jul-1999
C:Accession: S67489
R:de Lecea, L.; Criado, J.R.; Prospero-Garcia, O.; Gautvik, K.M.; Schweitzer, P.; Dan
Nature 381, 242-245, 1996
A:Title: A cortical neuropeptide with neuronal depressant and sleep-modulating proper
A:Reference number: S67489; MUID:96208649; PMID:8622767

A:Accession: S67489
A:Status: preliminary
A:Molecule type: mRNA
A:Residues: 1-112
A:Cross-References: EMBL:U51919; NID:g1335909; PIDN:AC52585.1; PID:g1335910
C:Superfamily: somatostatin

Query Match 53.2%; Score 295; DB 2; Length 112;
Best Local Similarity 55.8%; Pred. No. 1,1e-23;

	Matches	Conservative	Mismatches	Indels	Gaps
OY	2	P L S P G I L L L L S G A T A T A T A L P L E G G T P R D S E H N O E A G I R K S L L T F L A W M E W T S O A S	61		
Dd	11	P S A L S L L L L L L L S C A S A L P L E S P T Q D S - V O D A R G C G R T G I L T L T L A W H H E A S O D S	68		
OY	62	A G P L I G E A R Y A R Q E G A P Q O S A R R D R M C R N F E M T F E S S C K	105		
Dd	69	S T A F E G G T E P L S R O E R P L D O P P H R K K C K N E F W T F E S S C K	112		

RESULT 3

somatostatin-14 [Pro2, Met13] precursor - laughing frog
 N:Alternate names: PSS2 protein
 C:Species: *Rana ridibunda* (laughing frog)
 C:Date: 11-Apr-1997 #sequence_revision 09-May-1997 #text_change 16-Jul-1999
 C:Accession: J06167
 R:ToStylinf, H.; Lihmann, I.; Buchardes, C.; Vieau, D.; Coulouarn, Y.; Fournier, A.; CC
 P:Ref. Mol. Acad. Sci. U.S.A. 93, 12605-12610, 1996
 A:Title:Occurrence of two somatostatin variants in the frog brain: Characterization of
 A:Reference number: J06166; MUID:97057290; PMID:8901629
 A:Contents: brain
 A:Accession: J06167
 A:Molecule type: mRNA
 A:Residues: 1-103 <TO>
 A:Cross-references: GB:068137; NID:g1890652; PIDN:AAC60094.1; PID:g1890653
 C:Comment: This protein acts both as neurotransmitter/neuromodulator and a hormone.
 C:Genetics:
 A:Gene: ps92
 C:Superfamily: somatostatin
 C:Keywords: brain; hormone

Query Match	20.3%	Score 112.5	DB 2	Length 103
Best Local Similarity	32.4%	Pred. No. 0.00011		
Matches 35, Conservative 13, Mismatches 37,			Indels 23,	Gaps 4

```

QY  3 LLLLLGGAATAATLPLEGGPTGROSEHHQOEAAGIKRSLTFLWFEWMTQOASGPII 66
    4 LLLLLL  LLLLL  LLLLL  LLLLL  LLLLL  LLLLL  LLLLL  LLLLL  LLLLL  LLLLL
Db  9 LLLLLMGARALSQPPDNRITTCRN-----QDLNALIOODLLKILSSN-----IDRSRSLV 60

QY  67 GEAREYARQEGAP-----PQOARRDNRMCNRFEMKTESSC 104
    8 LLLLL  LLLLL  LLLLL  LLLLL  LLLLL  LLLLL  LLLLL  LLLLL  LLLLL  LLLLL
Db  61 -----EERNVDPDPPEKIPPSYKVFRLSLREKAKCKNFEMWTFMTC 103
    2 LLLLL  LLLLL  LLLLL  LLLLL  LLLLL  LLLLL  LLLLL  LLLLL  LLLLL  LLLLL

```

RESULT 4

Somatostatin precursor - bovine
 A:Alternate names: Preprosomatostatin
 C:Contains: somatostatin 14 (SS-14); somatostatin 28 (SS-28)
 C:Species: Bos primigenius taurus (cattle)
 C:Date: 06-Mar-1992 #sequence, revision 31-Jan-1997 #text, change 18-Jun-1999
 C:Accession: A40929
 R:Su, C.J.; White, J.W.; Li, W.H.; Luo, C.C.; Frazier, M.L.; Saunders, G.F.; Chan, L.
 Mol. Endocrinol. 2, 209-216, 1988
 A:Title: Structure and evolution of somatostatin genes.
 A:Reference number: A40929; MUID:88288237; PMID:2859837
 A:Accession: A40929
 A:Status: preliminary
 A:Molecule type: mRNA
 A:Residues: 1-116 <SVU>
 A:Cross-references: GB:831217; NID:g163636; PIND:AAA30744.1; PID:g163637
 A:Note: the authors translated the codon ATT for residue 65 as Asn
 C:Comment: Somatostatin inhibits the release of somatotropin.
 C:Superfamily: somatostatin
 C:Keywords: hormone; neuropeptide
 F:1-24/Domain: signal sequence #status predicted <SIG>
 F:25-88/Domain: propeptide #status predicted <PRO>
 F:89-116/Product: somatostatin-28 #status predicted <M28>
 F:103-116/Product: somatostatin-14 #status predicted <M14>
 F:105-116/Dissulfide bonds: #status predicted

.Query Match	17.9%	Score 99;	DB 1;	Length 116;
Best Local Similarity	31.5%;	Pred. No. 0.0031;		
Matches 34;	Conservative 13;	Mismatches 41;	Indels 20;	Gaps 5;

```

OY 1, ATAAPE---GGGTGDS-----EHNO:-AAGIRKSLLT-FLAMFEMTMSOASAGL 65
    | | | | | : | : | : | : | : | : | : | : | : | : | : | : | : |
Db 9 AATAATVLAAGVGTAGAPSDPLRQPLQKRLAAAGAGQELAKFLABELLESPQGTIDAL 68
    | | | | | : | : | : | : | : | : | : | : | : | : | : | : | : |
OY 66 IGEFARVARQF-----GAPPOQASRRDRMPCRFNFWKTESSC 104
    | | | | | : | : | : | : | : | : | : | : | : | : | : | : | : |
Db 69 EPEDLSGAARDDEKRLTELQASANSNPMPAAREKREACKNFEMWTFITSC 116
    | | | | | : | : | : | : | : | : | : | : | : | : | : | : | : |

```

RESULT

somatostatin precursor - rat
 N:Alternate names: preprosomatostatin
 N:Contains: somatostatin-14; somatostatin-28
 C:Species: Rattus norvegicus (Norway rat)
 C>Date: 03-Aug-1984 #sequence, revision 03-Aug-1984 #text, change 18-Jun-1984
 C:Accession: A20983; A0131; A47558; A22529; I55220; I51829
 R:Montminy, M.R.; Goodman, R.H.; Horovitch, S.J.; Habener, J.F.
 Proc. Natl. Acad. Sci. U.S.A. 81, 3337-3340, 1984
 A>Title: Primary structure of the gene encoding rat preprosomatostatin.
 A:Reference number: A20983; MIMD:84221954; PMID:6145156
 A:Accession: A20983

A: Molecule type: DNA
A: Residues: 1-116 <MON>
A: Cross-references: GB:00787; NID:9207024; PIDN:AAA42164.1; PID:g207025
A: Note: the authors translated the codon ACC for residue 43 as Tyr
R: Argos, P.; Taylor, W.L.; Minth, C.D.; Dixon, J.E.

A;Title: Nucleotide and amino acid sequence comparisons of preprosomatostatin
A;Reference number: A01431; MUID:83238516; PMID:6134734
A;Accession: A01431
A;Status: nucleic acid sequence not shown

A: Molecule type: mRNA
A: Residues: 1-116 <ARG>
R: Benoit, R., Ling, N., Esch, F.
Science 238, 1126-1129, 1987
A: Title: A new proinsulin-derived peptide reveals a pattern for prohormone cleavage
A: Reference number: A47598; MUID: 88070564; PMID: 2891188

A; Molecu

J.Tavinianin, M.A.; Hayes, T.E.; Magazian, M.D.; Minch, C.D.; Dixon, J.E.
 J. Biol. Chem. 255, 11798-11803, 1984
 A>Title: Isolation, characterization, and DNA sequence of the rat somatostatin gene.
 A:Reference number: A22529; MUID:85006903; PMID:6148343
 A:Accession: A22529
 A>Status: preliminary
 A:Molecule type: DNA
 A:Residues: 1-116 <TAV>
 A:Cross-references: GB:002248; NID:g207014; PIDN:AAA42161.1; PID:g207017
 R:Goodman, R.H.; Jacobs, J.W.; Dee, P.C.; Habener, J.F.
 J. Biol. Chem. 257, 1156-1159, 1982
 A>Title: Somatostatin-28 encoded in a cloned cDNA obtained from a rat medullary thyrco
 A:Reference number: I55220; MUID:82120034; PMID:6120163
 A:Accession: I55220
 A>Status: translated from GB/EMBL/DDBT
 A:Molecule type: mRNA
 A:Residues: 38-76,'H',80-116 <RES>
 A:Cross-references: GB:000788; NID:g207018; PIDN:AAA42162.1; PID:g207019
 R:Goodman, R.H.; Montminy, M.R.; Low, M.J.; Habener, J.F.
 Adv. Exp. Med. Biol. 188, 31-47, 1985
 A>Title: Biosynthesis of rat preprosomatostatin.
 A:Reference number: I51829; MUID:85303584; PMID:2863939
 A:Accession: I51829
 A>Status: translated from GB/EMBL/DDBT
 A:Molecule type: mRNA
 A:Residues: 1-116 <RE2>
 A:Cross-references: GB:A25590; NID:g207030; PIDN:AAA42167.1; PID:g207031

Submitted to the EMBL Data Library, June 1991

A:Description: Nucleotide sequence determination of chicken somatostatin precursor cDNA

A:Reference number: S20630

A:Accession: S20630

A:Status: preliminary

A:Molecule type: mRNA

A:Residues: 1-116 <NAT>

A:Cross-references: EMBL:X60191; MID:962985; PIDN:CAA42747.1; PID:962986

C:Superfamily: somatostatin

Query Match

Best Local Similarity 16.7%; Score 92.5; DB 1; Length 116;

Matches 34; Conservative 8; Mismatches 53; Indels 13; Gaps 3;

Db

7 LLLLLGCATTAALPLEGGPTGRDSEHMOEAGCIRKSSLT-FLAMFWFTSQASGCL 65

12 LLSIALVGVTSNA---PSDPRLRQFLQKSLAAAGKQELAKYFLALILSEPSTENEAL 68

66 IGE-----EAREVARROEGAPPOOSARRODMPCRNPFWKFSSC 104

69 ESEDLRGAEODEVRLERLERSANSNPALAPERRAGCKNPFWKTFITSC 116

RESULT 8

RIAFSI

N:Contains: somatostatin I

C:Species: Lophius americanus (American goosefish)

C:Date: 31-Mar-1991 #sequence_revision 31-Mar-1981 #text_change 28-May-1999

C:Accession: A93236; A93860; A91087; A01433

R:Hubart, P.; Crawford, R.; Shen, L.; Pictet, R.; Rutter, W.J.

Nature 288, 137-141, 1990

A:Title: Cloning and sequence analysis of cDNAs encoding two distinct somatostatin proteins from the American goosefish, *Lophius americanus*

A:Reference number: A93236; MUID:81052423; PMID:6107860

A:Accession: A93236

A:Molecule type: mRNA

A:Residues: 1-121 <HOB>

A:Cross-references: GB:V00640; GB:J00946; MID:964028; PIDN:CAA23986.1; PID:964029

R:Goodman, R.H.; Jacobs, J.W.; Chin, W.W.; Lund, P.K.; Dee, P.C.; Habener, J.F.

Proc. Natl. Acad. Sci. U.S.A. 77, 5869-5873, 1980

A:Title: Nucleotide sequence of a cloned structural gene coding for a precursor of pancreatic somatostatin

A:Reference number: A93860; MUID:81077276; PMID:6108560

A:Accession: A93860

A:Molecule type: mRNA

A:Residues: 2-20, 'V', 22-82, 'E', 84-121 <GOO>

A:Experimental source: islet tissue (endocrine pancreas)

R:Goodman, R.H.; Jacobs, J.W.; Chin, W.W.; Lund, P.K.; Dee, P.C.; Habener, J.F.

Proc. Natl. Acad. Sci. U.S.A. 79, 1682, 1982

A:Reference number: A93905

A:Contents: annotation; erratum

R:Noe, B.D.; Spiess, J.; Rivier, J.E.; Vale, W.

Endocrinology 105, 1410-1415, 1979

A:Title: Isolation and characterization of somatostatin from anglerfish pancreatic islet

A:Reference number: A91087; MUID:80046482; PMID:387385

A:Accession: A91087

A:Molecule type: protein

A:Residues: 108-121 <NOE>

C:Superfamily: somatostatin

C:Keywords: neuropeptide

F:1-24/Domain: signal sequence #status predicted <SIG>

F:108-121/Product: somatostatin I #status experimental <NAT>

F:110-121/Disulfide bonds: #status predicted

Query Match

Best Local Similarity 16.5%; Score 91.5; DB 1; Length 121;

Matches 35; Conservative 12; Mismatches 44; Indels 25; Gaps 5;

Db

8 LLLLLGCATTAALPLEGGPTGRDSE-----HMOEAG-----IRKSSILNFL----- 50

12 LTVLLLSLTASISGSPAG---QRDSKRLRLHRYPLQSGKQDMTRSAALABLLDLDLQGE 68

51 --AMFWFTSQASGCLPEAREVARROEGAPPOOSARRODMPCRNPFWKFSSC 104

RESULT 13
A32271
somatostatin-related protein - Atlantic hagfish
C:Species: Myxine glutinosa (Atlantic hagfish)
C:Date: 21-May-1990 #sequence_revision 21-May-1990 #text_change 31-Dec-1993
;Accession : A32271

RESULT 15
I50798
preprosomatostatin SS-14 - channel catfish

C:Species: *Ictalurus punctatus* (channel catfish)
C:Date: 13-Sep-1996 #sequence=13-Sep-1996 #text_change 16-Jul-1999
C:Accession: I50798
R:Dixon, J.E.; Andrews, P.C.
Adv. Exp. Med. Biol. 188, 19-29, 1985
A:Title: Somatostatin of the channel catfish.
A:Reference number: I50798; PMID:85303576; PMID:2863931
A:Accession: I50798
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: mRNA
A:Residues: 1-114 <DIX>
A:Cross-references: NID:g213339; PIDN:AAA49339.1; PID:g213340
C:Superfamily: somatostatin

Query Match	15.0%	Score	83	DB	2	Length	114
Best Local Similarity	37.0%	Procr. No.	0	14			
Matches	17	Conservative	7	Mismatches	12	Indels	10
						Gaps	1

```
0Y      69 EAREVARQ-----GAPPOOSARRDRCNFFWKTSSC 104  
        ::||| |         ||| : | :|||||||::||  
0b      69 DSDEVSRAESEGARLEMERAAGPMLAPERERKAGCKNFWKTFSC 114
```

Search completed: June 23, 2003, 15:57:30
Job time : 42 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: June 23, 2003, 15:50:44 ; Search time 22 Seconds
(without alignments)
197.955 Million cell updates/sec

Title: US-09-766-396-26

Perfect score: 554
Sequence: 1 MPLSPGLLLLLSGATATA.....ARRDRMPCRFNFKTSSCK 105

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 112892 seqs, 41476328 residues

Total number of hits satisfying chosen parameters: 112892

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

SwissProt_40:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	554	100.0	105	1	CORT_HUMAN
2	295	53.2	112	1	CORT_RAT
3	272	49.1	103	1	CORT_MOUSE
4	112.5	20.3	109	1	SMS2_RANRI
5	112.5	20.3	111	1	SMSB_CARAU
6	99	17.9	116	1	SMS_BOVIN
7	98	17.7	116	1	SMS_SHEEP
8	95.5	17.2	116	1	SMS_CANFA
9	95	17.1	109	1	SMS2_PROAN
10	95	17.1	116	1	SMS_MOUSE
11	92.5	16.7	116	1	SMS_CHICK
12	91.5	16.5	121	1	SMS1_LOPAM
13	91	16.4	114	1	SMSA_CARAU
14	89	16.1	116	1	SMS_HUMAN
15	87	15.7	92	1	SMS_PIG
16	86	15.5	115	1	SMS1_RANRI
17	85	15.3	34	1	SMS_MYXGL
18	83	15.0	114	1	SMS1_ICTPU
19	83	15.0	115	1	SMS1_PROAN
20	79.5	14.4	73	1	SMS2_PLAFE
21	79	14.3	37	1	SMS_PETVA
22	78	14.1	26	1	SMS1_AMICA
23	76	13.7	35	1	SMS_LAMFL
24	76	13.7	115	1	SMS2_ONCMY
25	71.5	12.9	1493	1	M3K1_MOUSE
26	71	12.8	125	1	SMS2_MOUSE
27	71	12.8	228	1	C79B_MOUSE
28	70.5	12.7	682	1	TBR1_HUMAN
29	70	12.6	14	1	SMS1_MYOSC
30	70	12.6	14	1	SMS_ALAMI
31	69.5	12.5	388	1	RGSK_HUMAN
32	69.5	12.5	1077	1	AT10_HUMAN
33	68.5	12.4	74	1	SMS2_MYOSC

34	68.5	12.4	1493	1	M3K1_RAT	Q62925	rattus norv
35	67	12.1	120	1	SMS2_CARAU	Q9Y914	carassius a
36	67	12.1	462	1	G1PR_MESAU	P43218	mesocricetu
37	66	11.9	390	1	AROC_BACHD	Q9K6D7	baillius ha
38	65.5	11.8	445	1	NDOF_MCTU	P95176	mycobacteri
39	65.5	11.8	501	1	GDPF5_HUMAN	P43026	homo sapien
40	64.5	11.6	1032	1	CARA_HUMAN	Q9BW17	homo sapien
41	64.5	11.6	1298	1	ICPA_HSV11	P08392	herpes simp
42	64.5	11.6	2164	1	CCAA_MOUSE	P97445	mus musculu
43	64	11.6	1010	1	T226_HUMAN	Q92622	homo sapien
44	63.5	11.5	250	1	TDXH_AERPE	Q9Y910	aeropyrum p
45	63.5	11.5	709	1	MBA2_ECOLI	P07112	escherichia

ALIGNMENTS

RESULT 1	CORT_HUMAN	STANDARD	PRT	105 AA.
AC	000230			
DT	15-JUL-1998 (Rel. 36, Created)			
DT	15-JUL-1998 (Rel. 36, Last sequence update)			
DT	16-OCT-2001 (Rel. 40, Last annotation update)			
DE	Cortistatin precursor [Contains: Cortistatin-29; Cortistatin-17].			
GN	CORT			
OS	Homo sapiens (Human).			
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;			
OC	Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.			
OX	NCBI_Taxid:9606;			
RN	[1]			
RP	SEQUENCE FROM N.A.			
RC	TISSUE=Brain;			
RX	MEDLINE-97236300; PubMed-9125122;			
RA	Fukusumi S., Kitada C., Takekawa S., Kizawa H., Sakamoto J.,			
RA	Miyamoto M., Hinuma S., Kitano K., Fujino M.;			
RT	"Identification and characterization of a novel human			
RT	cortistatin-like peptide.";			
RL	Biochem. Biophys. Res. Commun. 232:157-163(1997).			
RN	[2]			
RP	SEQUENCE FROM N.A.			
RX	MEDLINE-97349120; PubMed-9205124;			
RA	de Leece L., Ruiz-Lozano P., Danielson P.E., Peelle-Kirley J.;			
RA	Foye P.E., Frankel W.N., Sutcliffe J.G.;			
RT	"Cloning, mRNA expression, and chromosomal mapping of mouse and human			
RT	preprocortistatin.";			
RT	Genomics 42:499-506(1997).			
CC	-1- FUNCTION: BINDS TO ALL HUMAN SOMATOSTATIN RECEPTOR (SSTR)			
CC	SUBTYPES. IT ALSO INHIBITS CAMP PRODUCTION INDUCED BY FORSKOLIN			
CC	THROUGH SSTRs.			
CC	-1- SUBCELLULAR LOCATION: Secreted.			
CC	-1- TISSUE SPECIFICITY: EXPRESSED IN A SUBSET OF GABAERGIC CELLS IN			
CC	THE CORTEX AND HIPPOCAMPUS.			
CC	-1- SIMILARITY: BELONGS TO THE SOMATOSTATIN FAMILY.			
CC	-----			
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CC	use by non-profit institutions as long as its content is in no way			
CC	modified and this statement is not removed. Usage by and for commercial			
CC	entities requires a license agreement (See http://www.isb-sib.ch/announce/			
CC	or send an email to license@sib-sib.ch).			
CC	-----			
DR	EMBL; AB000263; BA19770.1; -			
DR	EMBL; AF013252; AA66895.1; -			
DR	Genew; HGNC:2257; CORT.			
DR	MIM; 602784; -			
DR	InterPro; IPR004250; Somatostatin.			
DR	Pfam; PF03002; Somatostatin; 1.			
KW	Cleavage on pair of basic residues; Hormone; Signal.			
KW	SIGNAL			
FT	PEPTIDE	1	18	POTENTIAL.
FT	PEPTIDE	77	105	CORTISTATIN-29 (POTENTIAL).
FT	PEPTIDE	89	105	CORTISTATIN-17.

FT DISULFID 93 104 BY SIMILARITY.
SQ SEQUENCE 105 AA; 11532 MW; 09578F4520201551 CRC64;

Query Match 100.0%; Score 554; DB 1; Length 105;
Best Local Similarity 100.0%; Pred. No. 2.8e-51;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MFLSPGLLLLSGATATAPLLEGGPTGRDSEHMOEAGIRKSSLLTFLAWMEWTSQA 60
DB 1 MFLSPGLLLLSGATATAPLLEGGPTGRDSEHMOEAGIRKSSLLTFLAWMEWTSQA 60

QY 61 SAGPLIGEARVARROGAPPOQSARDRCRNFETSSCK 105
DB 61 SAGPLIGEARVARROGAPPOQSARDRCRNFETSSCK 105

RESULT 2

CORT_RAT STANDARD; PRT; 112 AA.

AC 062949;

DT 01-NOV-1997 (Rel. 35, Created)

DT 01-NOV-1997 (Rel. 35, Last sequence update)

DT 16-OCT-2001 (Rel. 40, Last annotation update)

DE Cortistatin precursor [contains: Cortistatin-29; Cortistatin-17].

GN CORT.

OS Rattus norvegicus (Rat).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.

OX NCBI_Taxid=10116;

RN [1]

RP SEQUENCE FROM N.A., AND SYNTHESIS OF 99-112.

RC STRAIN-Sprague-Dawley;

RX MEDLINE=96208649; PubMed=8622767;

RA de Lecea L., Criado J.R., Prospero-Garcia O., Gautvik K.M.,

RA Schweitzer P., Danielson P.E., Dunlop C.L.M., Siggins G.R.,

RT "A cortical neuropeptide with neuronal depressant and sleep-modulating

RT properties";

RT Nature 381:242-245(1996).

CC -1 FUNCTION: NEUROPEPTIDE WITH NEURONAL DEPRESSANT AND SLEEP-

CC MODULATING PROPERTIES.

CC -1 SUBCELLULAR LOCATION: Secreted.

CC -1 TISSUE SPECIFICITY: INTERNEURONS IN THE CEREBRAL CORTEX AND

CC HIPPOCAMPUS.

CC -1 DEVELOPMENTAL STAGE: THERE IS A TRANSIENT INCREASE IN CORTISTATIN-

CC EXPRESSING CELLS IN THE SECOND POSTNATAL WEEK IN ALL CORTICAL

CC AREAS AND IN THE DENTATE GYRUS. A TRANSIENT EXPRESSION IS OBSERVED

CC IN THE HILAR REGION AT P16.

CC -1 SIMILARITY: BELONGS TO THE SOMATOSTATIN FAMILY.

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CC -----

CC EMBL: U51919; AAC52585.1; -

DR InterPro: IPR004250; Somatostatin.

DR Pfam: PF03002; Somatostatin; 1.

RW Cleavage on pair of basic residues; Hormone; Signal.

FT SIGNAL 1 27 POTENTIAL.

FT PEPTIDE 84 112 CORTISTATIN-29 (POTENTIAL).

FT PEPTIDE 99 112 CORTISTATIN-14.

FT DISULFID 100 111 BY SIMILARITY.

SQ SEQUENCE 112 AA; 12201 MW; FFLFBC76CBD991 CRC64;

Query Match 53.2%; Score 295; DB 1; Length 112;
Best Local Similarity 55.8%; Pred. No. 3.7e-24;
Matches 58; Conservative 13; Mismatches 31; Indels 2; Gaps 1;

QY 2 PLSFGLLLLLSGATATAPLLEGGPTGRDSEHMOEAGIRKSSLLTFLAWMEWTSQA 61

DB 11 PLSFGLLLLLSGATATAPLLEGGPTGRDSEHMOEAGIRKSSLLTFLAWMEWTSQA 68

QY 62 AGPLIGEARVARROGAPPOQSARDRCRNFETSSCK 105
DB 62 SSTAPEGTPELTKRQERPPLOQPPHKKCKKCFKFWTFSSCK 112

RESULT 3

CORT_MOUSE STANDARD; PRT; 109 AA.

AC P56469;

DT 15-JUL-1998 (Rel. 36, Created)

DT 15-JUL-1998 (Rel. 36, Last sequence update)

DT 16-OCT-2001 (Rel. 40, Last annotation update)

DE Cortistatin precursor [contains: Cortistatin-14].

GN CORT.

OS Mus musculus (Mouse).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

OX NCBI_Taxid=10090;

RN [1]

RP SEQUENCE FROM N.A.

RC STRAIN=C57BL/6J;

RX MEDLINE=97349120; PubMed=9205124;

RA de Lecea L., Ruiz-Lozano P., Danielson P.E., Peelle-Kirley J.,

RA Foye P.E., Frankel W.N., Sutcliffe J.G.;

RT "Cloning, mRNA expression, and chromosomal mapping of mouse and human

RT preprocortistatin";

RT Genomics 42:499-506(1997).

CC -1 SUBCELLULAR LOCATION: Secreted.

CC -1 TISSUE SPECIFICITY: EXPRESSED IN A SUBSET OF GABAERGIC CELLS IN

CC THE CORTEX AND HIPPOCAMPUS.

CC -1 SIMILARITY: BELONGS TO THE SOMATOSTATIN FAMILY.

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CC -----

CC EMBL: AF013253; AAB66896.1; -

DR MGD; MGI:109538; Cort.

DR InterPro: IPR004250; Somatostatin.

DR Pfam: PF03002; Somatostatin; 1.

RW Cleavage on pair of basic residues; Hormone; Signal.

FT SIGNAL 1 25 POTENTIAL.

FT PEPTIDE 96 109 CORTISTATIN-14.

FT DISULFID 97 108 BY SIMILARITY.

SQ SEQUENCE 109 AA; 11613 MW; 630D3BD00488F722 CRC64;

Query Match 49.1%; Score 272; DB 1; Length 109;
Best Local Similarity 55.8%; Pred. No. 9.3e-22;
Matches 58; Conservative 11; Mismatches 29; Indels 6; Gaps 3;

QY 2 PLSFGLLLLLSGATATAPLLEGGPTGRDSEHMOEAGIRKSSLLTFLAWMEWTSQA 61

DB 12 PLSFGLLLLLSGATATAPLLEGGPTGRDSEHMOEAGIRKSSLLTFLAWMEWTSQA 65

QY 62 AGPLIGEARVARROGAPPOQSARDRCRNFETSSCK 105

DB 66 SSTAPEGTPELTKRQERPPLOQPPHKKCKKCFKFWTFSSCK 109

RESULT 4

SMS2_RANRI STANDARD; PRT; 103 AA.

AC P87385;

DT 16-OCT-2001 (Rel. 40, Created)

DT 16-OCT-2001 (Rel. 40, Last sequence update)

DT 16-OCT-2001 (Rel. 40, Last annotation update)

DE Cortistatin precursor [contains: Cortistatin-14].

GN CORT.

OS Mus musculus (Mouse).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

OX NCBI_Taxid=10090;

RN [1]

RP SEQUENCE FROM N.A.

RC STRAIN=C57BL/6J;

RX MEDLINE=97349120; PubMed=9205124;

RA de Lecea L., Ruiz-Lozano P., Danielson P.E., Peelle-Kirley J.,

RA Foye P.E., Frankel W.N., Sutcliffe J.G.;

RT "Cloning, mRNA expression, and chromosomal mapping of mouse and human

RT preprocortistatin";

RT Genomics 42:499-506(1997).

CC -1 SUBCELLULAR LOCATION: Secreted.

CC -1 TISSUE SPECIFICITY: EXPRESSED IN A SUBSET OF GABAERGIC CELLS IN

CC THE CORTEX AND HIPPOCAMPUS.

CC -1 SIMILARITY: BELONGS TO THE SOMATOSTATIN FAMILY.

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CC -----

CC EMBL: AF013253; AAB66896.1; -

DR MGD; MGI:109538; Cort.

DR InterPro: IPR004250; Somatostatin.

DR Pfam: PF03002; Somatostatin; 1.

RW Cleavage on pair of basic residues; Hormone; Signal.

FT SIGNAL 1 25 POTENTIAL.

FT PEPTIDE 96 109 CORTISTATIN-14.

FT DISULFID 97 108 BY SIMILARITY.

SQ SEQUENCE 109 AA; 11613 MW; 630D3BD00488F722 CRC64;


```

RN NCBI_TaxID=7957;
RP [1]
RC SEQUENCE FROM N.A.
RA T1SSD=Brain;
RA Otto C.J., Lin X.-W., Peter R.E.;
RT "Molecular cloning of cDNA encoding [Pro2]somatostatin-14 in
  goldfish.";
RL Submitted (SEP-1996) to the EMBL/GenBank/DDBJ databases.
CC -! FUNCTION: SOMATOSTATIN INHIBITS THE RELEASE OF SOMATOTROPIN.
CC -! SUBCELLULAR LOCATION: Secreted.
CC -! SIMILARITY: BELONGS TO THE SOMATOSTATIN FAMILY.
CC -----
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CC -----
DR EMBL: U72656; AAD09631.1; -
DR InterPro: IPR004250; Somatostatin.
DR Pfam: PF03002; Somatostatin; 1.
KW Cleavage on pair of basic residues; Hormone; Signal; Multigene family.
FT SIGNAL 1 19
FT PROPEP 20 87 POTENTIAL.
FT PEPTIDE 88 111 [PRO2]SOMATOSTATIN-24 (POTENTIAL).
FT PEPTIDE 98 111 [PRO2]SOMATOSTATIN-14.
FT DISULFID 100 111 BY SIMILARITY.
SQ SEQUENCE 111 AA; 12557 MW; 0E93479BA2B9F051 CRC64;

Query Match 20.3%; Score 112.5; DB 1; Length 111;
Best Local Similarity 33.6%; Pred. No. 4.6e-05;
Matches 36; Conservative 16; Mismatches 40; Indels 15; Gaps 5;

QY 8 LLLLLSATATTAALPLEGCPPTGRSEHMOEAAIGKRSLSLTFLLAMWTEWT-----SQAS 61
  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
DB 10 LLLVLSVRAAAVLPVE-----ERNPAOSRELSTKREKELIKLIGLLDGVNVSVDGEIA 65
  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
QY 62 AGPLIGEAAREVARQEGCA--PPQSGARRDR-MPCENFETKPTSSC 104
  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
DB 66 PVFPEADAEPLLE-SRLERAVYNNRSLQLPQDRKAPCAKFNFKTTTSC 111
  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||

RESULT 6
ID SMS_BOVIN STANDARD; PRT; 116 AA.
AC P26917;
DT 01-AUG-1992 (Rel. 23, Created)
DT 01-AUG-1992 (Rel. 23, Last sequence update)
DT 16-OCT-2001 (Rel. 40, Last annotation update)
DE Somatostatin precursor [Contains: Somatostatin-28, Somatostatin-14].
OS Bos taurus (Bovine).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;
OC Bovidae; Bovinae; Bos.
OX NCBI_TaxID=9913;
[1]
RN SEQUENCE FROM N.A.
RP MEDLINE=8828837; PubMed=2899837;
RA Su C.J., White J.W., Li W.H., Luo C.C., Frazier M.L., Saunders G.F.,
RA Chan L.;
RT "Structure and evolution of somatostatin genes.";
RT Mol. Endocrinol. 2:209-216(1988).
[2]
RN SEQUENCE FROM N.A.
RP STRAIN=Holstein;
RC MEDLINE=99198780; PubMed=10100681;
RA Furu L.M., Kazmer G.W., Strausbaugh L., Zinn S.A.;
RT "Cloning and characterization of the bovine somatostatin gene.";
RT J. Anim. Sci. 77:492-493(1993).
CC -! FUNCTION: SOMATOSTATIN INHIBITS THE RELEASE OF SOMATOTROPIN.

```

DR EMBL: AF031488; AAC04697.1; -.
DR EMBL: Y15267; CAA75556.1; -.

Query Match	17.28;	Score 95.5;	DB 1;	Length 116;
Best Local Similarity	28.48;	Pred. No. 0.0029;		
Matches 31; Conservative	15;	Mismatches 44;	Indels 19;	Gaps 4

DT 16-OCT2001 (Rel. 40, Last annotation update)
DE Somatostatin precursor [Contains: Antirln; Somatostatin-28;
DE Somatostatin-14].
GN SSV OR SMSV.
OS Mus musculus (Mouse), and
OC Rattus norvegicus (Rat).
CC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
CC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus
OX NCBI_TaxID=10090, 10116;
RN
RP SEQUENCE FROM N.A.
RC SPECIES-Rat:
RX MEDLINE=85006903; PubMed=6148343.
RA Tavianini M.A., Hayes T.E., Magazin M.D., Minch C.D., Dixon J.E.;
RT "Isolation, characterization, and DNA sequence of the rat
RL somatostatin gene.";
RJ J. Biol. Chem. 259:11798-11803(1984).
RN
RP SEQUENCE FROM N.A.
RC SPECIES-Rat:
RX MEDLINE=83238516; PubMed=6134734;
RA Argos P., Taylor W.L., Minch C.D., Dixon J.E.;
RT "Nucleotide and amino acid sequence comparisons of
RL preprosomatostatins.";
RJ J. Biol. Chem. 258:8788-8793(1983).
RN
RP SEQUENCE FROM N.A.
RC SPECIES-Rat:
RX MEDLINE=83213516; PubMed=6138871;
RA Goodman R.H., Aron D.C., Roos B.A.;
RT "Rat pre-prosomatostatin. Structure and processing by microsomal
RN membranes.";
RJ J. Biol. Chem. 258:5570-5573(1983).
RN
RP SEQUENCE FROM N.A.
RC SPECIES-Rat:
RX MEDLINE=85303584; PubMed=2863939;
RA Goodman R.H., Montminy M.R., Low M.J., Habener J.F.;
RT "Biosynthesis of rat preprosomatostatin.";
RJ Adv. Exp. Med. Biol. 188:31-47(1985).
RN
RP SEQUENCE FROM N.A.
RC SPECIES-Rat:
RX MEDLINE=84221954; PubMed=6145156;
RA Montminy M.R., Goodman R.H., Horovitch S.J., Habener J.F.;
RT "Primary structure of the gene encoding rat preprosomatostatin.";
RJ Proc. Natl. Acad. Sci. U.S.A. 81:3337-3340(1984).
RN
RP SEQUENCE OF 38-116 FROM N.A.
RC SPECIES-Rat:
RX MEDLINE=82120034; PubMed=6120163;
RA Goodman R.H., Jacobs J.W., Dee P.C., Habener J.F.;
RT "Somatostatin-28 encoded in a cloned cDNA obtained from a rat
RL medullary thyroid carcinoma.";
RJ J. Biol. Chem. 257:1156-1159(1982).
RN
RP SEQUENCE OF 25-34.
RC SPECIES-Rat; STRAIN=Sprague-Dawley;
RX MEDLINE=88070564; PubMed=2891188;
RA Benoit R., Ling N., Esch F.;
RT "A new prosomatostatin-derived peptide reveals a pattern for
RL prohormone cleavage at monobasic sites.";
RJ Science 238:1126-1129(1987).
RN
RP SEQUENCE FROM N.A.
RC SPECIES-Mouse; TRISSE=Brain;
RX MEDLINE=90206793; PubMed=1966620;
RA Fuhrmann G., Helling R., Kempf J., Ebner A.;
RT "Nucleotide sequence of the mouse preprosomatostatin gene.";
RJ Nucleic Acids Res. 18:1287-1287(1990).
RN
RP FUNCTION: SOMATOSTATIN INHIBITS THE RELEASE OF SOMATOTROPIN.
CC -!- SUBCELLULAR LOCATION: Secreted.
CC -!- SIMILARITY: BELONGS TO THE SOMATOSTATIN FAMILY.

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CC
CC EMBL; K02248; AAA42161.1; -
CC EMBL; V01271; CAA24579.1; -
CC EMBL; J00787; AAA42164.1; -
CC EMBL; M25890; AAA42167.1; -
CC EMBL; J00788; AAA42162.1; -
CC EMBL; X51468; CAA35831.1; -
CC PIR; A20983; R1RTS1.
CC PIR; S08416; S08416.
CC MGD; MGI:98326; Smt.
CC InterPro: IPR004250; Somatostatin.
CC Pfam; PF03002; Somatostatin; 1.
CC Cleavage on pair of basic residues; Hormone; signal.
CC
CC SIGNAL 1 24
CC PEPTIDE 25 34 ANTRIN.
CC PROPEP 35 88
CC PEPTIDE 89 116 SOMATOSTATIN-28.
CC PEPTIDE 103 116 SOMATOSTATIN-14.
CC DISULFID 105 116
CC CONFLICT 43 43
CC CONFLICT 79 79 Q -> Y (IN REF. 5).
CC SEQUENCE 116 AA; 12745 MW; D48B5454C490375 CRC64;

Query Match 17.1%; Score 95; DB 1; Length 116;
Best Local Similarity 30.2%; Pred. No. 0.0033;
Matches 35; Conservative 14; Mismatches 49; Indels 18; Gaps 5;

OY 7 LLLLLSGATATTAALPLEGGPTGRDS-----EHMOE-ANGIRKSSLLT-FLAWFEWT 57
DB 1 MLCRLQCALALCIVIALGVGTGAPSPRLRQFLQKSLAAATGKQELAKFLLELSEP 60
OY 58 SQASAGPLIGEEAREVARROE-----GAPQOSARRDRMPCRNFFWKTFFSSC 104
DB 61 NOTENDALEPEDLPQAABQDEMRLQLRSANSNPAMAPREKRAGCKNFFWKTFFSC 116

RESULT 11
SMSL_CHICK STANDARD; PRT; 116 AA.
AC P33094;
PT 01-OCT-1993 (Rel. 27, Created)
PT 01-OCT-1993 (Rel. 27, Last sequence update)
PT 16-OCT-2001 (Rel. 40, Last annotation update)
DE Somatostatin precursor [Contains: Somatostatin-28; Somatostatin-14].
GN SST.
OS Gallus gallus (Chicken).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae;
OC Gallus.
OX NCBI_TaxID=9031;
RN [1]
RP SEQUENCE FROM N.A.
RC Tissue-Pancreas;
RA Nata K., Kobayashi T., Karahashi K., Kato S., Yamamoto H.,
RA Yonekura H., Okamoto H.;
RL Submitted (JUN-1991) to the EMBL/GenBank/DBJ databases.
CC -1- FUNCTION: SOMATOSTATIN INHIBITS THE RELEASE OF SOMATOTROPIN.
CC -1- SUBCELLULAR LOCATION: Secreted.
CC -1- SIMILARITY: BELONGS TO THE SOMATOSTATIN FAMILY.

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CC
CC EMBL; X60191; CAA42747.1; -
CC PIR; S20630; S20630.
CC InterPro: IPR004250; Somatostatin.
CC Pfam; PF03002; Somatostatin; 1.
CC Cleavage on pair of basic residues; Hormone; signal.
CC
CC SIGNAL 1 24
CC PEPTIDE 25 88 BY SIMILARITY.
CC PEPTIDE 89 116 SOMATOSTATIN-28.
CC PEPTIDE 103 116 SOMATOSTATIN-14.
CC DISULFID 105 116
CC SEQUENCE 116 AA; 12675 MW; 8A5BB9BDA8A291BA CRC64;

Query Match 16.7%; Score 92.5; DB 1; Length 116;
Best Local Similarity 31.5%; Pred. No. 0.006;
Matches 34; Conservative 8; Mismatches 53; Indels 13; Gaps 3;

OY 7 LLLLLSGATATTAALPLEGGPTGRDSEHMOEAGIRKSSLLT-FLAWFEWTSQASAGPL 65
DB 12 LLSIALAVGTVSAA---PSDRLRQFLQKSLAAAGKQELAKFLLELSEPQTENRAL 68
OY 66 IGE-----FAREVARROEGAPPOOSARRDRMPCRNFFWKTFFSSC 104
DB 69 ESEDLSRGAODEVRLERLSANSNPALAPREKRAGCKNFFWKTFFSC 116

RESULT 12
SMSL_LOPAM STANDARD; PRT; 121 AA.
AC P01169;
DT 21-JUL-1986 (Rel. 01, Created)
DT 21-JUL-1986 (Rel. 01, Last sequence update)
DT 16-OCT-2001 (Rel. 40, Last annotation update)
DE Somatostatin I precursor [Contains: Somatostatin-14].
OS Lophius americanus (American goosefish) (Anglerfish).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;
OC Acanthomorpha; Paracanthopterygii; Lophiiformes; Lophiidae; Lophius.
OX NCBI_TaxID=8073;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=81052423; PubMed=6107860;
RA Hobart P.M., Crawford R., Shen L., Piclet R., Ruter W.J.;
RT "Cloning and sequence analysis of cDNAs encoding two distinct
RT somatostatin precursors found in the endocrine pancreas of
RT anglerfish".
RL Nature 288:137-141(1980).
RN [2]
RP SEQUENCE OF 2-121 FROM N.A.
RX MEDLINE=81072276; PubMed=6108560;
RA Goodman R.H., Jacobs J.W., Chin W.W., Lund P.K., Dee P.C.,
RA Habener J.F.;
RT "Nucleotide sequence of a cloned structural gene coding for a
RT precursor of pancreatic somatostatin".
RL Proc. Natl. Acad. Sci. U.S.A. 77:5869-5873(1980).
RN [3]
RP ERRATUM.
RA Goodman R.H., Jacobs J.W., Chin W.W., Lund P.K., Dee P.C.,
RA Habener J.F.;
RL Proc. Natl. Acad. Sci. U.S.A. 79:1682-1682(1982).
RN [4]
RP SEQUENCE OF 108-121.
RX MEDLINE=80046482; PubMed=387385;
RA Noe B.D., Spiess J., Rivier J.E., Vale W.;
RT "Isolation and characterization of somatostatin from anglerfish
RT pancreatic islet".
RL Endocrinology 105:1410-1415(1979).
CC -1- FUNCTION: SOMATOSTATIN INHIBITS THE RELEASE OF SOMATOTROPIN.
CC -1- SUBCELLULAR LOCATION: Secreted.
CC -1- SIMILARITY: BELONGS TO THE SOMATOSTATIN FAMILY.

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DR EMBL: V00640; CAA23986.1; -
 DR PIR: A01433; RIAFSI.
 DR InterPro: IPR004250; Somatostatin.
 DR Pfam: PF03002; Somatostatin; 1.
 KW Cleavage on pair of basic residues; Hormone; Signal;
 KM Multigene family.
 FT SIGNAL 1 24 PROBABLE.
 FT PROPEP 25 105
 FT PEPTIDE 108 121 SOMATOSTATIN-14.
 FT DISULFID 110 121
 FT CONFLICT 21 21 A -> V (IN REF. 2).
 FT CONFLICT 83 83 G -> E (IN REF. 2).
 SO SEQUENCE 121 AA; 13325 MW; D70C53DC798C2095 CRC64;

Query Match 16.5%; Score 91.5; DB 1; Length 121;
 Best Local Similarity 30.2%; Pred. No. 0.0079;
 Matches 35; Conservative 12; Mismatches 44; Indels 25; Gaps 5;

Db 8 LLLLSGATATLPLEGGPTGRDSE-----HMQEAG-----IRKSSILTFLE----- 50
 12 LVLVLSLRASISCSFAG---QDSKRLHLHRYPLQGSQDMTRSLAELLSDLQGE 68

OY 51 -AMFEMTSQASAGPLIGEARVARRQGCAPPQOSARRDMPCRNFEMFTSSC 104
 69 NEALEENFLAEGGP---EDAHADLERASGGPLAPRRKXGCKNFEMFTTSC 121

RESULT 13
 SMSA_CARAU STANDARD; PRT; 114 AA.
 AC OYGH5;
 DT 16-OCT-2001 (Rel. 40, Created)
 DT 16-OCT-2001 (Rel. 40, Last sequence update)
 DT 16-OCT-2001 (Rel. 40, Last annotation update)
 DE Somatostatin 1A precursor [Contains: Somatostatin-26; Somatostatin-14].
 OS Carassius auratus (Goldfish).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Actinopterygii; Neopterygii; Teleostei; Ostariophysi; Cypriniformes;
 OC Cyprinidae; Carassius.
 OC NCBI_TaxID=7957;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC TISSUE=Brain;
 RA Lin X.-W., Peter R.E.:
 RT "Cloning and characterization of cDNAs encoding preprosomatostatin-I
 RT and -II from goldfish brain."
 RL Submitted (NOV-1995) to the EMBL/GenBank/DBJ databases.
 CC -1- FUNCTION: SOMATOSTATIN INHIBITS THE RELEASE OF SOMATOTROPIN.
 CC -1- SUBCELLULAR LOCATION: Secreted.
 CC -1- SIMILARITY: BELONGS TO THE SOMATOSTATIN FAMILY.
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DR EMBL: U40754; AAD09359.1; -
 DR InterPro: IPR004250; Somatostatin.
 DR Pfam: PF03002; Somatostatin; 1.
 KW Cleavage on pair of basic residues; Hormone; Signal; Multigene family.
 KM SIGNAL 1 24 POTENTIAL.

FT PROPEP 25 88 POTENTIAL.
 FT PEPTIDE 89 114 SOMATOSTATIN-26 (POTENTIAL).
 FT PEPTIDE 101 114 SOMATOSTATIN-14.
 FT DISULFID 103 114 BY SIMILARITY.
 SO SEQUENCE 114 AA; 12574 MW; B5920015E2D272A4 CRC64;

Query Match 16.4%; Score 91; DB 1; Length 114;
 Best Local Similarity 27.0%; Pred. No. 0.0084;
 Matches 31; Conservative 12; Mismatches 42; Indels 30; Gaps 4;

OY 8 LLLLSGATATLPLEG-----GPTGRDSHMQEAGIRKSSILTFLEAMWFEW 56
 12 LLSIALAVCSVAPTDARLQRLSLNPAK-----DELRYTLADLSELY----- 61

OY 57 TSQASAGPLIGEARVARRQGE-----GAPQOSARRDMPCRNFEMFTSSC 104
 62 --QAEALPEPDLISRAVEKDEYRLERAGAPMLAPRRKXGCKNFEMFTTSC 114

RESULT 14
 SMS_HUMAN STANDARD; PRT; 116 AA.
 AC P0166;
 DT 21-JUL-1986 (Rel. 01, Created)
 DT 21-JUL-1986 (Rel. 01, Last sequence update)
 DT 16-OCT-2001 (Rel. 40, Last annotation update)
 DE Somatostatin precursor [contains: Somatostatin-28; Somatostatin-14].
 GN SST.
 OS Homo sapiens (Human), and
 OS Macaca fascicularis (Grab eating macaque) (Cynomolgus monkey).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
 OC NCBI_TaxID=9606, 9541;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC SPECIES=Human;
 RX MEDLINE=8416798; Pubmed=6142531;
 RA Shen L.-P., Rutter W.J.:
 RT "Sequence of the human somatostatin I gene."
 RL Science 224:168-171(1984).
 RN [2]
 RP SEQUENCE FROM N.A.
 RC SPECIES=Human;
 RX MEDLINE=83014931; Pubmed=6126875;
 RA Shen L.-P., Pictet R.L., Rutter W.J.:
 RT "Human somatostatin I: sequence of the cDNA."
 RL Proc. Natl. Acad. Sci. U.S.A. 79:4573-4579(1982).
 RN [3]
 RP SEQUENCE FROM N.A.
 RC SPECIES=M.fascicularis;
 RX MEDLINE=8814503; Pubmed=2894033;
 RA Travis G.H., Sutcliffe J.G.:
 RT "Phenol emulsion-enhanced DNA-driven subtractive cDNA cloning:
 RT isolation of low-abundance monkey cortex-specific mRNAs."
 RL Proc. Natl. Acad. Sci. U.S.A. 85:1696-1700(1988).
 CC -1- FUNCTION: SOMATOSTATIN INHIBITS THE RELEASE OF SOMATOTROPIN.
 CC -1- SUBCELLULAR LOCATION: Secreted.
 CC -1- PHARMACOLOGICAL: Available under the name Sandostatin (Novartis);
 CC this is a synthetic cyclic analog known as octreotide or SMS
 CC 201-995. Used for the treatment of a variety of disorders
 CC including acromegaly and the symptomatic treatment of carcinoid
 CC tumors and vasoactive intestinal peptide tumors.
 CC -1- SIMILARITY: BELONGS TO THE SOMATOSTATIN FAMILY.
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DR EMBL: J00306; AAA60566.1; -

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DR EMBL: M19318; AAA36908.1; -.
DR PIR: A43614; R1H0SL.
DR PIR: A28968; A28968.
DR Genew: HGNC:11329; SST.
DR MIM: 182450; -.
DR InterPro: IPR004250; Somatostatin.
DR Pfam: PF03002; Somatostatin; 1.
DR Cleavage on pair of basic residues; Hormone; Signal; Pharmaceutical.
FT SIGNAL 1 24
FT PROPEP 25 88
FT PEPTIDE 89 116 SOMATOSTATIN-28.
FT PEPTIDE 103 116 SOMATOSTATIN-14.
FT DISULFD 105 116
SO SEQUENCE 116 AA; 12735 MW; AB49BB89DC9DD8DA CRC64;

Query Match
Best Local Similarity 29.6%; Pred. No. 0.014; Length 116;
Matches 32; Conservative 14; Mismatches 42; Indels 20; Gaps 5;

OY 17 ATPALPL-----EGGPTG-RDSEHMQE--AAGIRKSSLLT-FLAMFEMTSQASAGPL 65
b 9 ALAALSIYALGCVTGAAPSDRLROFLQKSLAAAGKQELAKYFLAELLSEPNQENDAL 68
OY 66 IGEAREVARRQF-----GAPPOOSARDRMPRCNRFWKFTSSC 104
Db 69 EPEDLSQAARQDEMRLEIQRANSNSNPAMAPRRKAGCKNFWKFTTSC 116

RESULT 15
SMS-PIG
ID SMS-PIG STANDARD: PRT: 92 AA.
AC P01168;
DT 21-JUL-1986 (Rel. 01, Created)
DT 01-OCT-1989 (Rel. 12, Last sequence update)
DT 16-OCT-2001 (Rel. 40, Last annotation update)
DE Somatostatin precursor [Contains: Somatostatin-28; Somatostatin-14]
DE (Fragment).
GN SST.
OS Sus. scrofa (pig).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sus.
OX NCBI_TaxID:9823;
RN [1]
RP SEQUENCE OF 1-64.
RX MEDLINE=89278131; PubMed=2567292;
RA Bersani M., Thim L., Baldissera F.G.A., Holst J.J.;
RT "Prosomatostatin 1-64 is a major product of somatostatin gene
expression in pancreas and gut.";
RL J. Biol. Chem. 264:10633-10636(1989).
RN [2]
RP SEQUENCE OF 1-32.
RX MEDLINE=86030691; PubMed=2865169;
RA Schmidt W.E., Mutt V., Kratzin H., Carlquist M., Conlon J.M.,
RA Creutzfeldt W.;
RT "Isolation and characterization of proSS1-32, a peptide derived from
the N-terminal region of porcine preprosomatostatin.";
RL FEBS Lett. 192:141-146(1985).
RN [3]
RP SEQUENCE OF 65-92.
RX TISSUE=Intestine;
RX MEDLINE=80113258; PubMed=7353633;
RA Pradayrol L., Joernvall H., Mutt V., Ribet A.;
RT "N-terminally extended somatostatin: the primary structure of
somatostatin-28.";
RL FEBS Lett. 109:55-58(1980).
RN [4]
RP SEQUENCE OF 65-92.
RX TISSUE=Hypothalamus;
RX MEDLINE=81034799; PubMed=6107906;
RA Schally A.V., Huang W.-Y., Chang R.C.C., Arimura A., Redding T.W.,
RA Millar R.P., Hunkapiller M.W., Hood L.E.;
RT "Isolation and structure of pro-somatostatin: a putative somatostatin
precursor from pig hypothalamus.";

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RL Proc. Natl. Acad. Sci. U.S.A. 77:4489-4493(1980).
RN [5]
RP SEQUENCE OF 79-92.
RX MEDLINE=76136331; PubMed=1252409;
RA Schally A.V., Dupont A., Arimura A., Redding T.W., Nishi N.,
RA Linthicum G.L., Schlesinger D.H.;
RT "Isolation and structure of somatostatin from porcine hypothalamus.";
RL Biochemistry 15:509-514(1976).
RN [6]
RP SEQUENCE OF 22-92 FROM N.A.
RA Riquet J.;
RT Submitted (SEP-1995) to the EMBL/Genbank/DBJ databases.
CC -1- FUNCTION: SOMATOSTATIN INHIBITS THE RELEASE OF SOMATOTROPIN.
CC -1- SUBCELLULAR LOCATION: Secreted.
CC -1- SIMILARITY: BELONGS TO THE SOMATOSTATIN FAMILY.
CC -----
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CC -----
DR EMBL: U36385; AAB38485.1; -.
DR PIR: A01432; R1P6S.
DR PIR: A24222; A24222.
DR PIR: A34109; A34109.
DR PIR: S13616; S13616.
DR InterPro: IPR004250; Somatostatin.
DR Pfam: PF03002; Somatostatin; 1.
DR Cleavage on pair of basic residues; Hormone.
KW NON_TER 1 1
FT PROPEP 1 64
FT PEPTIDE 65 92 SOMATOSTATIN-28.
FT PEPTIDE 79 92 SOMATOSTATIN-14.
FT DISULFD 81 92
SO SEQUENCE 92 AA; 10346 MW; 787CBB82CFBBAE76 CRC64;

Query Match
Best Local Similarity 15.7%; Score 87; DB 1; Length 92;
Matches 15; Conservative 7; Mismatches 15; Indels 0; Gaps 0;

OY 68 EAREVARRQGAAPPOOSARDRMPRCNRFWKFTSSC 104
Db 56 DEMRLEIQRANSNSNPAMAPRRKAGCKNFWKFTTSC 92

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Search completed: June 23, 2003, 15:56:42
Job time : 23 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: June 23, 2003, 15:45:24 ; Search time 84 Seconds

(without alignments)
257.559 Million cell updates/sec

Title: US-09-766-396-26

Perfect score: 554
Sequence: 1 MPLSPGLLLLLSGATATAA.....ARRDRMPCRNFFMTKTFSSCK 105

Scoring table: BLOSUM62
Gapop 10.0 ; Gapext 0.5

Searched: 671580 seqs, 206047115 residues

Total number of hits satisfying chosen parameters: 671580

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

SPREMBL_21:*

- 1: sp_archaea:*
- 2: sp_bacteria:*
- 3: sp_fungi:*
- 4: sp_human:*
- 5: sp_invertebrate:*
- 6: sp_mammal:*
- 7: sp_mhc:*
- 8: sp_organelle:*
- 9: sp_phage:*
- 10: sp_plant:*
- 11: sp_rodent:*
- 12: sp_virus:*
- 13: sp Vertebrate:*
- 14: sp Unclassified:*
- 15: sp_rvirus:*
- 16: sp_bacteriap:*
- 17: sp_archaeap:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	248	44.8	105	11	09R1P8 mus musculu
2	94.5	17.1	111	13	090XE0 actipenser t
3	89	16.1	116	13	090XE1 acipenser t
4	80	14.4	447	16	08XEM7 bruceella me
5	77	13.9	665	16	08ZBL8 Arabidopsis
6	76	13.7	1051	10	09LXN4 Arabidopsis
7	75	13.5	1325	16	08XU92 ralsconia s
8	74.5	13.4	101	16	092M60 rhizobium m
9	74	13.4	2055	4	075055 homo sapien
10	73.5	13.3	120	13	090Y39 catostomus
11	73	13.2	114	13	090Y41 gnathostomus
12	73	13.2	114	13	090Y40 chitla chi
13	72.5	13.1	189	10	09SDP3 oryza sativ
14	71.5	12.9	426	4	094805 homo sapien
15	71.5	12.9	426	11	099MR0 mus musculu
16	71.5	12.9	475	4	075421 homo sapien

17	70	12.6	541	3	08WZ00 neurospora
18	70	12.6	779	2	09XBP9 myxococcus
19	70	12.6	1034	5	095YU0 leishmania
20	69.5	12.5	312	16	098F77 rhizobium 1
21	69.5	12.5	332	5	096086 haemaphysal
22	69.5	12.5	574	2	08R0P8 streptomyce
23	69.5	12.5	882	16	09PF33 xyella fas
24	69	12.5	204	10	094JAB oryza sativ
25	69	12.5	262	16	080GAB agrobacteri
26	69	12.5	334	16	09RL53 streptomyce
27	69	12.5	372	5	09U7E6 caenorhabdi
28	69	12.5	535	5	095002 drosophila
29	69	12.5	637	6	09N2G5 caenorhabdi
30	69	12.5	664	16	09HXT9 pseudomonas
31	69	12.5	753	5	09U7E7 drosophila
32	68.5	12.4	169	5	09N1S0 toxoplasma
33	68.5	12.4	217	16	09RL23 streptomyce
34	68.5	12.4	484	13	09DD59 brachydanio
35	68	12.3	114	13	090Y42 pantodon bu
36	68	12.3	315	5	09VTT5 drosophila
37	68	12.3	352	5	09SRE4 drosophila
38	68	12.3	359	5	046173 drosophila
39	68	12.3	862	16	09KRQ4 vibrio chol
40	68	12.3	950	16	09HTS8 pseudomonas
41	67.5	12.2	374	16	09ABH2 caulobacter
42	67.5	12.2	838	12	P89445 herpes simp
43	67	12.1	195	4	096LW6 homo sapien
44	67	12.1	212	2	09XCC2 streptomyce
45	67	12.1	458	10	09AYAS oryza sativ

ALIGNMENTS

RESULT 1	
09R1P8	PRELIMINARY; PRT; 105 AA.
AC 09R1P8:	
DT 01-MAY-2000 (TREMBLrel. 13, Created)	
DT 01-MAY-2000 (TREMBLrel. 13, Last sequence update)	
DT 01-DEC-2001 (TREMBLrel. 19, Last annotation update)	
DE Preprocoristatin.	
GN COR.	
OS Mus musculus (Mouse).	
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;	
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.	
NCBI_Taxid=10090;	
LN [1]	
RN RP SEQUENCE FROM N.A.	
RC STRAIN=129/SV;	
RX MEDLINE=99453346; PubMed=10521599;	
RA Calbet M., Guadano-Ferraz A., Spier A.D., Maj M., Sutcliffe J.G.,	
RA Przewlocki R., de Jecoa L.;	
RT "Cortistatin and somatostatin mRNAs are differentially regulated in	
RT response to kainate.";	
RL Brain Res. Mol. Brain Res. 72:55-64(1999).	
RN [2]	
RP SEQUENCE FROM N.A.	
RC STRAIN=129/SV;	
RA Calbet-Murtro M., de Jecoa L.;	
RA Submitted (FEB-1998) to the EMBL/Genbank/DBJ databases.	
DR EMBL; AF050156; AAD51127.1;	
DR MGD; MGI:109538; Cort.	
DR InterPro; IPR004250; Somatostatin.	
DR Pfam; PF03002; Somatostatin; 1.	
FT CHAIN 88 105	
SQ SEQUENCE 105 AA; 11061 MW; F0DCDA0052ABBE95 CRC64;	
Query Match	44.8%; Score 248; DB 11; Length 105;
Best Local Similarity	51.0%; Pred. No. 5e-19; 29; Indels 10; Gaps 3;
Matches	53; Conservative 12; Mismatches 29; Indels 10; Gaps 3;
QY	2 PLSPGLLLLLSGATATAALPLEGGPTGRDSEHMQEANGIRKSSLLFLAMFWFTSQAS 61

Db 12 PSATGILLT---WGVAAAGLPLESGPTGDSQATEG-----RSGILTFIAW---WASQAS 61
 QY 62 AGPLIGEARREVARROEGAPPOQASRRDMPCRNPFMTSSCK 105
 Db 62 SSTPVGGTGGTGLSKSQERPPPOQPPHLDKPKCKNPFMTSSCK 105

RESULT 2

Q90XEO PRELIMINARY; PRT; 111 AA.
 AC Q90XEO; 01-DEC-2001 (TREMBlrel. 19, Created)
 DT 01-DEC-2001 (TREMBlrel. 19, Last sequence update)
 DT 01-MAR-2002 (TREMBlrel. 20, Last annotation update)
 DE Somatostatin pro.
 OS Acipenser transmontanus (White sturgeon).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Actinopterygii; Chondrostei; Acipenseriformes; Acipenseridae;
 NC NCB1_TaxID=7904;
 RP SEQUENCE FROM N.A.
 RC TISSUE=BRAIN;
 RA Tribucchi M., Tostivint H., Lihmann I., Sollars C., Vallarino M.,
 RA Dore R.M., Vaudry H.;
 RT "Polygenic expression of somatostatin in the sturgeon Acipenser
 transmontanus: molecular cloning and distribution of the mRNAs
 encoding two somatostatin precursors."
 RL J. Comp. Neurol. 0:0-0(2001).
 DR EMBL; AF395850; AAL13249.1;
 DR InterPro; IPR004250; Somatostatin.
 DR Pfam; PF03002; Somatostatin; 1.
 SQ SEQUENCE 111 AA; 12748 MW; 4E27DB90896A9025 CRC64;

Query Match 17.1%; Score 94.5; DB 13; Length 111;
 Best Local Similarity 29.4%; Pred. No. 0.013;
 Matches 32; Conservative 18; Mismatches 40; Indels 19; Gaps 5;

QY 8 LLLLSGATATTAALPLEGGPTGRDSEHM-OEAGIRKSSLLTFIAMWFMTSSQASAGPLI 66
 Db 10 LMLVYSLRVAVLPGF-----ERLSVSNRELSEKKEGFTKLISGLID---RVDSSVVL 62
 QY 67 GEARREV-----ARROEGA---PQOASRRDMPCRNPFMTSSCK 104
 Db 63 GEDVSPMDLEPLDLSRIEIRAIYRLSQLPLRARKAPCKNPFMTFTSC 111

RESULT 3

Q90XEL PRELIMINARY; PRT; 116 AA.
 AC Q90XEL; 01-DEC-2001 (TREMBlrel. 19, Created)
 DT 01-DEC-2001 (TREMBlrel. 19, Last sequence update)
 DT 01-MAR-2002 (TREMBlrel. 20, Last annotation update)
 DE Somatostatin.
 OS Acipenser transmontanus (White sturgeon).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Actinopterygii; Chondrostei; Acipenseriformes; Acipenseridae;
 NC NCB1_TaxID=7904;
 RP SEQUENCE FROM N.A.
 RC TISSUE=BRAIN;
 RA Tribucchi M., Tostivint H., Lihmann I., Sollars C., Vallarino M.,
 RA Dore R.M., Vaudry H.;
 RT "Polygenic expression of somatostatin in the sturgeon Acipenser
 transmontanus: molecular cloning and distribution of the mRNAs
 encoding two somatostatin precursors."
 RL J. Comp. Neurol. 0:0-0(2001).
 DR EMBL; AF395849; AAL13248.1;
 DR InterPro; IPR004250; Somatostatin.
 DR Pfam; PF03002; Somatostatin; 1.

SQ SEQUENCE 116 AA; 12616 MW; 72E0C3FF6C80650P CRC64;
 Query Match 16.1%; Score 89; DB 13; Length 116;
 Best Local Similarity 27.4%; Pred. No. 0.052; Indels 12; Gaps 3;
 Matches 29; Conservative 13; Mismatches 52; Indels 12; Gaps 3;

QY 9 LLLSGATATTAALPLEGGPTGRDSEHM-OEAGIRKSSLLTFIAMWFMTSSQASAGPLIG 67
 Db 13 LSLALAVSSVSAAPSD--PRLRQLLQRTLASAGKQELKYSINELLSELASQSENDLALAS 70
 QY 68 EEARVA-----RROEGAPPOQASRRDMPCRNPFMTSSCK 104
 Db 71 DELSRAEONDVRLERSANGNPAMAFREKACKNPFMTFTSC 116

RESULT 4

Q8XEM7 PRELIMINARY; PRT; 447 AA.
 AC Q8XEM7; 01-MAR-2002 (TREMBlrel. 20, Created)
 DT 01-MAR-2002 (TREMBlrel. 20, Last sequence update)
 DT 01-JUN-2002 (TREMBlrel. 21, Last annotation update)
 DE Hypothetical protein BME11660.
 GN BME11660 OR BME10903.
 OS Brucella melitensis.
 OC Bacteria; Proteobacteria; alpha subdivision; Rhizobiaceae group;
 CC Brucellaceae; Brucella.
 CX NCB1_TaxID=29459;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=16M / ATCC 23456 / BIOTYPE 1;
 RX MEDLINE=20020109; PubMed=11756688;
 RA DelVecchio V.G., Kapatal V., Redkar R.J., Patra G., Mujer C., Los T.,
 RA Ivanova N., Anderson I., Bhattacharya A., Lykidis A., Reznik G.,
 RA Jablonski L., Larsen N., D'Souza M., Bernal A., Mazur M., Goldsman E.,
 RA Selkov E., Elzer P.H., Hagius S., O'Callaghan D., Letesson J.-O.,
 RA Haselkorn R., Kyriides N., Overbeek R.;
 RT "The genome sequence of the facultative intracellular pathogen
 Brucella melitensis."
 RL Proc. Natl. Acad. Sci. U.S.A. 99:443-448(2002).
 DR EMBL; AE009601; AAL52841.1;
 DR EMBL; AE009531; AAL52084.1;
 DR InterPro; IPR002086; Aldenhyde_dehydr.
 DR PROSITE; PS00070; ALDENHYDE_DEHYDR_CYS; UNKNOWN_1.
 KW Hypothetical protein; Complete proteome.
 SQ SEQUENCE 447 AA; 50430 MW; F705D1DF7FAB0E5 CRC64;

Query Match 14.4%; Score 80; DB 16; Length 447;
 Best Local Similarity 36.4%; Pred. No. 2.3;
 Matches 24; Conservative 6; Mismatches 30; Indels 6; Gaps 1;

QY 23 LEGGPTGRDSEHMOEAGIRKSSLLTFIAMWFMTSSQASAGPLIGEARREVARROEGAPP 82
 Db 6 LEDDEQGNDSERQEDAEIRYSDMATPMPFAATVAAEA-----LVREAQVAAEAET 59
 QY 83 QOASRR 88
 Db 60 ROKRRR 65

RESULT 5

Q8ZBL8 PRELIMINARY; PRT; 665 AA.
 AC Q8ZBL8; 01-MAR-2002 (TREMBlrel. 20, Created)
 DT 01-MAR-2002 (TREMBlrel. 20, Last sequence update)
 DT 01-JUN-2002 (TREMBlrel. 21, Last annotation update)
 DE Ferrichrome transport system permease protein FhuB.
 GN FhuB OR YPO3390.
 OS Yersinia pestis.
 OC Bacteria; Proteobacteria; gamma subdivision; Enterobacteriaceae;
 CC Yersinia.
 CX NCB1_TaxID=632;

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: June 23, 2003, 15:56:50 ; Search time 48 Seconds

(without alignments)
236.702 Million cell updates/sec

Title: US-09-766-396-26

Perfect score: 554

Sequence: 1 MPISGLLLILSGATATA.....ARRDRMPCRFMTFFSSCK 105

Scoring table:

BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 417779 seqs, 108206813 residues

otal number of hits satisfying chosen parameters: 417779

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-Processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Published_Applications_AA:*

- 1: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep:*
- 2: /cgn2_6/ptodata/1/pubpaa/PCCT_NEW_PUB.pep:*
- 3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep:*
- 4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep:*
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- 14: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	554	100.0	105	10	US-09-766-396-26
2	554	100.0	105	12	US-10-062-375-26
3	554	100.0	155	9	US-10-066-500-132
4	554	100.0	155	9	US-10-028-072-380
5	554	100.0	155	9	US-10-121-043-380
6	554	100.0	155	9	US-10-123-904-380
7	554	100.0	155	9	US-10-140-470-380
8	554	100.0	155	9	US-10-175-746-380
9	554	100.0	155	9	US-10-176-918-380
10	554	100.0	155	9	US-10-176-921-380
11	554	100.0	155	9	US-10-002-796-132
12	554	100.0	155	9	US-10-066-273-132
13	554	100.0	155	9	US-10-137-865-380
14	554	100.0	155	9	US-10-140-474-380
15	554	100.0	155	9	US-10-143-114-380
16	554	100.0	155	9	US-10-066-269-132
17	554	100.0	155	9	US-10-140-002-380
18	554	100.0	155	9	US-10-140-002-380
19	554	100.0	155	9	US-10-140-002-380

20	554	100.0	155	9	US-10-066-193-132	Sequence 132, App
21	554	100.0	155	9	US-10-066-211-132	Sequence 132, App
22	554	100.0	155	9	US-10-142-419-380	Sequence 380, App
23	554	100.0	155	9	US-10-123-262-380	Sequence 380, App
24	554	100.0	155	9	US-10-142-423-380	Sequence 380, App
25	554	100.0	155	9	US-10-121-050-380	Sequence 380, App
26	554	100.0	155	9	US-10-141-755-380	Sequence 380, App
27	554	100.0	155	9	US-10-143-032-380	Sequence 380, App
28	554	100.0	155	9	US-10-123-108-380	Sequence 380, App
29	554	100.0	155	9	US-10-123-236-380	Sequence 380, App
30	554	100.0	155	9	US-10-123-261-380	Sequence 380, App
31	554	100.0	155	9	US-10-140-921-380	Sequence 380, App
32	554	100.0	155	9	US-10-140-928-380	Sequence 380, App
33	554	100.0	155	9	US-10-121-045-380	Sequence 380, App
34	554	100.0	155	9	US-10-123-292-380	Sequence 380, App
35	554	100.0	155	9	US-10-123-903-380	Sequence 380, App
36	554	100.0	155	9	US-10-124-819-380	Sequence 380, App
37	554	100.0	155	9	US-10-124-822-380	Sequence 380, App
38	554	100.0	155	9	US-10-140-925-380	Sequence 380, App
39	554	100.0	155	9	US-10-160-498-380	Sequence 380, App
40	554	100.0	155	9	US-10-121-041-380	Sequence 380, App
41	554	100.0	155	9	US-10-121-043-380	Sequence 380, App
42	554	100.0	155	9	US-10-121-047-380	Sequence 380, App
43	554	100.0	155	9	US-10-123-215-380	Sequence 380, App
44	554	100.0	155	9	US-10-123-902-380	Sequence 380, App
45	554	100.0	155	9	US-10-123-908-380	Sequence 380, App

ALIGNMENTS

RESULT 1
US-09-766-396-26
Sequence 26, Application US/09766396
Patent No. US20020013456A1
GENERAL INFORMATION:
APPLICANT: Sutcliffe, Gregor J.
de Leece, Luis
Siggs, George R.
Henriksen, Steven J.
TITLE OF INVENTION: NEUROPEPTIDES,
COMPOSITIONS AND METHODS
NUMBER OF SEQUENCES: 26
CORRESPONDENCE ADDRESS:
ADDRESS: THE SCRIPPS RESEARCH INSTITUTE
STREET: 10666 No. US20020013456A1th Torrey Pines Road, TPC-8
CITY: La Jolla
STATE: California
COUNTRY: US
ZIP: 92037
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/766,396
FILING DATE: 18-Jan-2001
CLASSIFICATION: <unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/857,389
FILING DATE: <unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Schmonsees, William
REGISTRATION NUMBER: 31,796
REFERENCE/DOCKET NUMBER: 22908-0002
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 324-7041
TELEFAX: (415) 324-0638
INFORMATION FOR SEQ ID NO: 26:
SEQUENCE CHARACTERISTICS:
LENGTH: 105 amino acids
TYPE: amino acid

STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
HYPOTHEICAL: NO
ANTI-SENSE: NO
FRAGMENT TYPE: Internal
SEQUENCE DESCRIPTION: SEQ ID NO: 26;
US-09-766-396-26

Query Match 100.0%; Score 554; DB 10; Length 105;
Best Local Similarity 100.0%; Pred. NO. 5.4e-52;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 MPLSPGILLLLSGATATATPLBGGPTGRDSEHMOEAAGIRKSSLLTFLAMWEWTSQA 60

QY 61 SAGPLIGEAREVARROGAPPOOSARDRMPCRNFEWKTSSCK 105
DB 61 SAGPLIGEAREVARROGAPPOOSARDRMPCRNFEWKTSSCK 105

RESULT 2
US-10-062-375-26
Sequence 26, Application US/10062375
Patent No. US20020133000A1
GENERAL INFORMATION:
APPLICANT: Sutcliffe, Gregor J.
de Laccia, Luis
Siggins, George R.
Henriksen, Steven J.
TITLE OF INVENTION: NEUROPEPTIDES,
COMPOSITIONS AND METHODS
NUMBER OF SEQUENCES: 26
CORRESPONDENCE ADDRESS:
ADDRESSEE: THE SCRIPPS RESEARCH INSTITUTE
STREET: 10666 No. US20020133000A1ch Torrey Pines Road, TPC-8
CITY: La Jolla
STATE: California
COUNTRY: US
ZIP: 92037
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/062,375
FILING DATE: 30-Jan-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/857,389
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Schmonsees, William
REGISTRATION NUMBER: 31,796
REFERENCE/DOCKET NUMBER: 22908-0002
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 324-7041
TELEFAX: (415) 324-0638
INFORMATION FOR SEQ ID NO: 26:
SEQUENCE CHARACTERISTICS:
LENGTH: 105 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
HYPOTHEICAL: NO
ANTI-SENSE: NO
FRAGMENT TYPE: Internal
SEQUENCE DESCRIPTION: SEQ ID NO: 26;
US-10-062-375-26

Query Match 100.0%; Score 554; DB 12; Length 105;
Best Local Similarity 100.0%; Pred. No. 5.4e-52;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 MPLSPGILLLLSGATATATPLBGGPTGRDSEHMOEAAGIRKSSLLTFLAMWEWTSQA 60

QY 61 SAGPLIGEAREVARROGAPPOOSARDRMPCRNFEWKTSSCK 105
DB 61 SAGPLIGEAREVARROGAPPOOSARDRMPCRNFEWKTSSCK 105

RESULT 3
US-10-066-500-132
Sequence 132, Application US/10066500
Patent No. US20020177165A1
GENERAL INFORMATION:
APPLICANT: Avi J. Ashkenazi
APPLICANT: Kevin P. Baker
APPLICANT: David A. Botstein
APPLICANT: Luc Desnoyers
APPLICANT: Dan L. Eaton
APPLICANT: Napoleone Ferrara
APPLICANT: Sherman Fong
APPLICANT: Wei-Qiang Gao
APPLICANT: Hanspeter Gerber
APPLICANT: Mary E. Gerltsen
APPLICANT: Audrey Goddard
APPLICANT: Paul J. Godowski
APPLICANT: Austin L. Gurney
APPLICANT: Ivar J. Kljavin
APPLICANT: Jennie P. Mather
APPLICANT: Mary A. Napier
APPLICANT: James Pan
APPLICANT: Nicholas F. Paoni
APPLICANT: Margaret Ann Roy
APPLICANT: Timothy A. Stewart
APPLICANT: Daniel Tumas
APPLICANT: Colin K. Watanabe
APPLICANT: P. Mickey Williams
APPLICANT: William T. Wood
APPLICANT: Zemin Zang
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3130R1C7
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/066,500
FILING DATE: 2002-02-01
PRIOR APPLICATION NUMBER: 10/002,796
FILING DATE: 2001-11-15
PRIOR APPLICATION NUMBER: 60/056974
FILING DATE: 1997-08-26
PRIOR APPLICATION NUMBER: 60/059115
FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059263
FILING DATE: 1997-09-18
PRIOR APPLICATION NUMBER: 60/059588
FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/062285
FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/062816
FILING DATE: 1997-10-24
PRIOR APPLICATION NUMBER: 60/063082
FILING DATE: 1997-10-31
PRIOR APPLICATION NUMBER: 60/063329
FILING DATE: 1997-10-27
PRIOR APPLICATION NUMBER: 60/063733
FILING DATE: 1997-10-29
PRIOR APPLICATION NUMBER: 60/066364
FILING DATE: 1997-11-21
PRIOR APPLICATION NUMBER: 60/066840
FILING DATE: 1997-11-25
PRIOR APPLICATION NUMBER: 60/069694

PRIOR FILING DATE: 1997-12-16
PRIOR APPLICATION NUMBER: 60/074086
PRIOR FILING DATE: 1998-02-09
PRIOR APPLICATION NUMBER: 60/074092
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PRIOR FILING DATE: 1998-08-10
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PRIOR FILING DATE: 1998-09-09
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PRIOR FILING DATE: 1999-12-07
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PRIOR FILING DATE: 1999-11-12
PRIOR APPLICATION NUMBER: 09/522342
PRIOR FILING DATE: 2000-03-09
PRIOR APPLICATION NUMBER: 09/548815
PRIOR FILING DATE: 2000-04-13
PRIOR APPLICATION NUMBER: 09/664610
PRIOR FILING DATE: 2000-09-18
PRIOR APPLICATION NUMBER: 09/665350
PRIOR FILING DATE: 2000-09-18
PRIOR APPLICATION NUMBER: 09/709238
PRIOR FILING DATE: 2000-11-08
PRIOR APPLICATION NUMBER: 09/767609
PRIOR FILING DATE: 2001-01-22
PRIOR APPLICATION NUMBER: 09/802706
PRIOR FILING DATE: 2001-03-09
PRIOR APPLICATION NUMBER: 09/808689
PRIOR FILING DATE: 2001-03-14
PRIOR APPLICATION NUMBER: 09/866028
PRIOR FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: 09/870574
PRIOR FILING DATE: 2001-05-30
PRIOR APPLICATION NUMBER: 09/872035
PRIOR FILING DATE: 2001-06-01
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PRIOR FILING DATE: 2001-06-19
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PRIOR FILING DATE: 1998-07-14
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PRIOR FILING DATE: 1998-09-14
PRIOR APPLICATION NUMBER: 09/19330
PRIOR FILING DATE: 1998-09-16
PRIOR APPLICATION NUMBER: 09/19437
PRIOR FILING DATE: 1998-09-17
PRIOR APPLICATION NUMBER: 09/24855
PRIOR FILING DATE: 1998-11-20
PRIOR APPLICATION NUMBER: 09/25108
PRIOR FILING DATE: 1998-12-01
PRIOR APPLICATION NUMBER: 09/25190
PRIOR FILING DATE: 1998-11-25
PRIOR APPLICATION NUMBER: 09/25028
PRIOR FILING DATE: 1999-03-08
PRIOR APPLICATION NUMBER: 09/12252
PRIOR FILING DATE: 1999-06-02
PRIOR APPLICATION NUMBER: 09/20111
PRIOR FILING DATE: 1999-09-01
PRIOR APPLICATION NUMBER: 09/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: 09/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: 09/21547

Query Match 100.0%; Score 554; DB 9; Length 155;
Best Local Similarity 100.0%; Pred. No. 8.4e-52;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 51 MPLSGLLLLLSGATATAALPLEGGPGRDESEHMOEAGIRKSSILTFELAMFEMTSQA 110
OY 61 SAGPLIGEARVAROGAGAPPQOSARDRMPCCRNFEWKTSSCK 105
DB 111 SAGPLIGEARVAROGAGAPPQOSARDRMPCCRNFEWKTSSCK 155

RESULT 4
US-10-028-072-380
Sequence 380, Application US/10028072
GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Beresini, Maureen
APPLICANT: DeForge, Laura
APPLICANT: Desnoyers, Luc
APPLICANT: Filvaroff, Ellen
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Sherwood, Steven
APPLICANT: Smith, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K
APPLICANT: Wood, William
APPLICANT: Zhang
TITLE OF INVENTION:
FILE REFERENCE:
CURRENT APPLICATION NUMBER: US/10/028, 072
PRIOR FILING DATE: 2001-12-19
PRIOR APPLICATION NUMBER: 60/049911
PRIOR FILING DATE: 1997-06-18
PRIOR APPLICATION NUMBER: 60/056974
PRIOR FILING DATE: 1997-08-26
PRIOR APPLICATION NUMBER: 60/059113
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PRIOR FILING DATE: 1997-10-24
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PRIOR APPLICATION NUMBER: 60/063329
PRIOR FILING DATE: 1997-10-27
PRIOR APPLICATION NUMBER: 60/063550
PRIOR FILING DATE: 1997-10-28
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PRIOR APPLICATION NUMBER: 60/066511
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PRIOR APPLICATION NUMBER: 60/073612
PRIOR FILING DATE: 1998-02-04
PRIOR APPLICATION NUMBER: 60/074086
PRIOR FILING DATE: 1998-02-09
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PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081818
PRIOR FILING DATE: 1998-04-15

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;; PRIOR FILING DATE: 1998-04-29
;; PRIOR APPLICATION NUMBER: 60/084600
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/084627
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/084637
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;; PRIOR APPLICATION NUMBER: 60/085149
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;; PRIOR FILING DATE: 1998-05-13
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;; PRIOR FILING DATE: 1998-06-17
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;; PRIOR APPLICATION NUMBER: 60/089907
;; PRIOR FILING DATE: 1998-06-18
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;; PRIOR FILING DATE: 1998-06-19
;; PRIOR APPLICATION NUMBER: 60/090349
;; PRIOR FILING DATE: 1998-06-23
;; PRIOR APPLICATION NUMBER: 60/090429
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090445
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090538
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090863
;; PRIOR FILING DATE: 1998-06-26
;; PRIOR APPLICATION NUMBER: 60/091360
;; PRIOR FILING DATE: 1998-07-01
;; PRIOR APPLICATION NUMBER: 60/091519
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091982
;; PRIOR FILING DATE: 1998-07-07

Query Match 100.0%; Score 554; DB 9; Length 155;
Best Local Similarity 100.0%; Pred. No. 8.4e-52;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MPLSPGLLLLSGATATAALPLEGGPTGRDSEHMOEAAGIRKSSILTFIAMWFMTSSA 60
|||||

Db 51 MPLSPGLLLLSGATATAALPLEGGPTGRDSEHMOEAAGIRKSSILTFIAMWFMTSSA 110
QY 61 SAGPLIGEARARROEGAPPOQASRRDRMCRNFMTSSCK 105
|||||
Db 111 SAGPLIGEARARROEGAPPOQASRRDRMCRNFMTSSCK 155

RESULT 5
US-10-121-049-380

; Sequence 380, Application US/10121049
; Publication No. US2003002239A1

; GENERAL INFORMATION:

; APPLICANT: Baker, Kevin P.

; APPLICANT: Beresini, Maureen

; APPLICANT: Desnoyers, Luc

; APPLICANT: Filvaroff, Ellen

; APPLICANT: Gao, Wei-Qiang

; APPLICANT: Gerritsen, Mary E.

; APPLICANT: Goddard, Audrey

; APPLICANT: Godowski, Paul J.

; APPLICANT: Gurney, Austin L.

; APPLICANT: Sherwood, Steven

; APPLICANT: Smith, Victoria

; APPLICANT: Stewart, Timothy A.

; APPLICANT: Tumas, Daniel

; APPLICANT: Watanabe, Colin K

; APPLICANT: Wood, William

; APPLICANT: Zhang, Zemin

; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC

; TITLE OF INVENTION: ACIDS ENCODING THE SAME

; FILE REFERENCE: P330R1C17

; CURRENT FILING DATE: 2002-04-12

; NUMBER OF SEQ ID NOS: 550

; SEQ ID NO 380

; LENGTH: 155

; TYPE: PRT

; ORGANISM: Homo Sapien

US-10-121-049-380

Query Match 100.0%; Score 554; DB 9; Length 155;
Best Local Similarity 100.0%; Pred. No. 8.4e-52;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MPLSPGLLLLSGATATAALPLEGGPTGRDSEHMOEAAGIRKSSILTFIAMWFMTSSA 60
|||||

Db 51 MPLSPGLLLLSGATATAALPLEGGPTGRDSEHMOEAAGIRKSSILTFIAMWFMTSSA 110
|||||

QY 61 SAGPLIGEARARROEGAPPOQASRRDRMCRNFMTSSCK 105
|||||

Db 111 SAGPLIGEARARROEGAPPOQASRRDRMCRNFMTSSCK 155
|||||

RESULT 6
US-10-123-904-380

; Sequence 380, Application US/10123904
; Publication No. US20030022328A1

; GENERAL INFORMATION:

; APPLICANT: Baker, Kevin P.

; APPLICANT: Beresini, Maureen

; APPLICANT: Desnoyers, Luc

; APPLICANT: Filvaroff, Ellen

; APPLICANT: Gao, Wei-Qiang

; APPLICANT: Gerritsen, Mary E.

; APPLICANT: Goddard, Audrey

; APPLICANT: Godowski, Paul J.

; APPLICANT: Gurney, Austin L.

; APPLICANT: Sherwood, Steven

; APPLICANT: Smith, Victoria

; APPLICANT: Stewart, Timothy A.

APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K
APPLICANT: Wood, William
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3330R1C54
CURRENT APPLICATION NUMBER: US/10/123,904
CURRENT FILING DATE: 2002-04-16
Prior Application removed - See File Wrapper or Palm
NUMBER OF SEQ ID NOS: 550
SEQ ID NO 380
LENGTH: 155
TYPE: PRT
ORGANISM: Homo Sapien
US-10-123-904-380

Query Match 100.0%; Score 554; DB 9; Length 155;
Best Local Similarity 100.0%; Pred. No. 8,4e-52;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Y 1 MPLSPGILLLLSGATATAALPLEGGPTGRDSEHMOBAGIRKSSLLTFLAMFEWTSOA 60
|||||
Db 51 MPLSPGILLLLSGATATAALPLEGGPTGRDSEHMOBAGIRKSSLLTFLAMFEWTSOA 110
|||||
QY 61 SAGPLIGEAREVARROEGAPPOQSARRDRMPCRNFFWKTFSSCK 105
|||||
Db 111 SAGPLIGEAREVARROEGAPPOQSARRDRMPCRNFFWKTFSSCK 155
|||||

RESULT 7
US-10-140-470-380
Sequence 380, Application US/10140470
Publication No. US20030022331A1

GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Beresini, Maureen
APPLICANT: Deforge, Laura
APPLICANT: Desnoyers, Luc
APPLICANT: Filvaroff, Ellen
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Sherwood, Steven
APPLICANT: Smith, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K
APPLICANT: Wood, William
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3330R1C160
CURRENT APPLICATION NUMBER: US/10/140,470
CURRENT FILING DATE: 2002-05-06
Prior Application removed - See File Wrapper
NUMBER OF SEQ ID NOS: 550
SEQ ID NO 380
LENGTH: 155
TYPE: PRT
ORGANISM: Homo Sapien
US-10-140-470-380

Query Match 100.0%; Score 554; DB 9; Length 155;
Best Local Similarity 100.0%; Pred. No. 8,4e-52;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MPLSPGILLLLSGATATAALPLEGGPTGRDSEHMOBAGIRKSSLLTFLAMFEWTSOA 60
|||||
Db 51 MPLSPGILLLLSGATATAALPLEGGPTGRDSEHMOBAGIRKSSLLTFLAMFEWTSOA 110
|||||

QY 61 SAGPLIGEAREVARROEGAPPOQSARRDRMPCRNFFWKTFSSCK 105
|||||
Db 111 SAGPLIGEAREVARROEGAPPOQSARRDRMPCRNFFWKTFSSCK 155
|||||

RESULT 8
US-10-175-746-380
Sequence 380, Application US/10175746
Publication No. US20030027270A1

GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Beresini, Maureen
APPLICANT: Deforge, Laura
APPLICANT: Desnoyers, Luc
APPLICANT: Filvaroff, Ellen
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Sherwood, Steven
APPLICANT: Smith, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K
APPLICANT: Wood, William
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3330R1C353
CURRENT APPLICATION NUMBER: US/10/175,746
CURRENT FILING DATE: 2002-06-19
Prior Application removed - See File Wrapper or Palm
NUMBER OF SEQ ID NOS: 550
SEQ ID NO 380
LENGTH: 155
TYPE: PRT
ORGANISM: Homo Sapien
US-10-175-746-380

Query Match 100.0%; Score 554; DB 9; Length 155;
Best Local Similarity 100.0%; Pred. No. 8,4e-52;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MPLSPGILLLLSGATATAALPLEGGPTGRDSEHMOBAGIRKSSLLTFLAMFEWTSOA 60
|||||
Db 51 MPLSPGILLLLSGATATAALPLEGGPTGRDSEHMOBAGIRKSSLLTFLAMFEWTSOA 110
|||||
QY 61 SAGPLIGEAREVARROEGAPPOQSARRDRMPCRNFFWKTFSSCK 105
|||||
Db 111 SAGPLIGEAREVARROEGAPPOQSARRDRMPCRNFFWKTFSSCK 155
|||||

RESULT 9
US-10-176-918-380
Sequence 380, Application US/10176918
Publication No. US20030027275A1

GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Beresini, Maureen
APPLICANT: Deforge, Laura
APPLICANT: Desnoyers, Luc
APPLICANT: Filvaroff, Ellen
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Sherwood, Steven
APPLICANT: Smith, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K

Query Match	100.0%	Score 554	DB 9	Length 155
Best Local Similarity	100.0%	Pred. No. 8.4e-52		
Matches 105	Conservative 0	Mismatches 0	Indels 0	Gaps 0

QY	1	MPSPGIIIIIIISGATATAALPLEGGPTGRDSEHMOEAAGIRKSSLTFLAMFEWTSQA	60
Db	51	MPSPGIIIIIIISGATATAALPLEGGPTGRDSEHMOEAAGIRKSSLTFLAMFEWTSQA	110
QY	61	SAGPLIGEAARVARRQEGAPPOOSARRDRDCNFFWKTSSSK	105

TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEOTIDE
 FILE REFERENCE: P3130R1C1
 CURRENT APPLICATION NUMBER: US/10/002,796
 PRIOR FILING DATE: 2001-11-15
 PRIOR APPLICATION NUMBER: 60/056974
 PRIOR FILING DATE: 1997-08-26
 PRIOR APPLICATION NUMBER: 60/059115
 PRIOR FILING DATE: 1997-09-17
 PRIOR APPLICATION NUMBER: 60/059263
 PRIOR FILING DATE: 1997-09-18
 PRIOR APPLICATION NUMBER: 60/059588
 PRIOR FILING DATE: 1997-09-17
 PRIOR APPLICATION NUMBER: 60/062285
 PRIOR FILING DATE: 1997-10-17
 PRIOR APPLICATION NUMBER: 60/062816
 PRIOR FILING DATE: 1997-10-24
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 PRIOR FILING DATE: 1997-10-31
 PRIOR APPLICATION NUMBER: 60/063329
 PRIOR FILING DATE: 1997-10-27
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 PRIOR APPLICATION NUMBER: 60/063664
 PRIOR FILING DATE: 1997-11-21
 PRIOR APPLICATION NUMBER: 60/066840
 PRIOR FILING DATE: 1997-11-25
 PRIOR APPLICATION NUMBER: 60/069694
 PRIOR FILING DATE: 1997-12-16
 PRIOR APPLICATION NUMBER: 60/074086
 PRIOR FILING DATE: 1998-02-09
 PRIOR APPLICATION NUMBER: 60/074092
 PRIOR FILING DATE: 1998-02-09
 PRIOR APPLICATION NUMBER: 60/079294
 PRIOR FILING DATE: 1998-03-25
 PRIOR APPLICATION NUMBER: 60/081049
 PRIOR FILING DATE: 1998-04-08
 PRIOR APPLICATION NUMBER: 60/095998
 PRIOR FILING DATE: 1998-08-10
 PRIOR APPLICATION NUMBER: 60/097000

PRIOR FILING DATE: 1998-08-18
PRIOR APPLICATION NUMBER: 60/099601
PRIOR FILING DATE: 1998-09-09
PRIOR APPLICATION NUMBER: 60/099803
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 60/099811
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PRIOR FILING DATE: 1998-09-10
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PRIOR FILING DATE: 1998-09-17
PRIOR APPLICATION NUMBER: 60/101922
PRIOR FILING DATE: 1998-09-24
PRIOR APPLICATION NUMBER: 60/106032
PRIOR FILING DATE: 1998-10-28
PRIOR APPLICATION NUMBER: 60/109304
PRIOR FILING DATE: 1998-11-20
PRIOR APPLICATION NUMBER: 60/125778
PRIOR FILING DATE: 1999-03-23
PRIOR APPLICATION NUMBER: 60/139695
PRIOR FILING DATE: 1999-06-15
PRIOR APPLICATION NUMBER: 60/145070
PRIOR FILING DATE: 1999-07-20
PRIOR APPLICATION NUMBER: 60/145698
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PRIOR APPLICATION NUMBER: 60/149396
PRIOR FILING DATE: 1999-08-17
PRIOR APPLICATION NUMBER: 60/159495
PRIOR FILING DATE: 1999-12-07
PRIOR APPLICATION NUMBER: 08/918874
PRIOR FILING DATE: 1997-08-26
PRIOR APPLICATION NUMBER: 08/933821
PRIOR FILING DATE: 1997-09-19
PRIOR APPLICATION NUMBER: 08/960507
PRIOR FILING DATE: 1997-10-29
PRIOR APPLICATION NUMBER: 09/114844
PRIOR FILING DATE: 1998-07-14
PRIOR APPLICATION NUMBER: 09/136801
PRIOR FILING DATE: 1998-08-19
PRIOR APPLICATION NUMBER: 09/136804
PRIOR FILING DATE: 1998-08-19
PRIOR APPLICATION NUMBER: 09/136828
PRIOR FILING DATE: 1998-08-19
PRIOR APPLICATION NUMBER: 09/158342
PRIOR FILING DATE: 1998-09-21
PRIOR APPLICATION NUMBER: 09/180997
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 09/202088
PRIOR FILING DATE: 1998-12-08
PRIOR APPLICATION NUMBER: 09/254311
PRIOR FILING DATE: 1999-03-03
PRIOR APPLICATION NUMBER: 09/254460
PRIOR FILING DATE: 1999-03-09
PRIOR APPLICATION NUMBER: 09/254465
PRIOR FILING DATE: 1999-03-05
PRIOR APPLICATION NUMBER: 09/284663
PRIOR FILING DATE: 1999-04-15
PRIOR APPLICATION NUMBER: 09/332928
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PRIOR FILING DATE: 1999-06-14
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PRIOR APPLICATION NUMBER: 09/380139
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PRIOR FILING DATE: 1999-10-18

PRIOR APPLICATION NUMBER: 09/403297
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PRIOR APPLICATION NUMBER: 09/423741
PRIOR FILING DATE: 1999-11-10
PRIOR APPLICATION NUMBER: 09/423844
PRIOR FILING DATE: 1999-11-12
PRIOR APPLICATION NUMBER: 09/522342
PRIOR FILING DATE: 2000-03-09
PRIOR APPLICATION NUMBER: 09/548815
PRIOR FILING DATE: 2000-04-13
PRIOR APPLICATION NUMBER: 09/664610
PRIOR FILING DATE: 2000-09-18
PRIOR APPLICATION NUMBER: 09/665350
PRIOR FILING DATE: 2000-09-18
PRIOR APPLICATION NUMBER: 09/709238
PRIOR FILING DATE: 2000-11-08
PRIOR APPLICATION NUMBER: 09/767609
PRIOR FILING DATE: 2001-01-22
PRIOR APPLICATION NUMBER: 09/802706
PRIOR FILING DATE: 2001-03-09
PRIOR APPLICATION NUMBER: 09/808689
PRIOR FILING DATE: 2001-03-14
PRIOR APPLICATION NUMBER: 09/866028
PRIOR FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: 09/870574
PRIOR FILING DATE: 2001-05-30
PRIOR APPLICATION NUMBER: 09/872035
PRIOR FILING DATE: 2001-06-01
PRIOR APPLICATION NUMBER: 09/886342
PRIOR FILING DATE: 2001-06-19
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PRIOR FILING DATE: 1998-07-14
PRIOR APPLICATION NUMBER: PCT/US98/18824
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: PCT/US98/19093
PRIOR FILING DATE: 1998-09-14
PRIOR APPLICATION NUMBER: PCT/US98/19330
PRIOR FILING DATE: 1998-09-16
PRIOR APPLICATION NUMBER: PCT/US98/19437
PRIOR FILING DATE: 1998-09-17
PRIOR APPLICATION NUMBER: PCT/US98/24855
PRIOR FILING DATE: 1998-11-20
PRIOR APPLICATION NUMBER: PCT/US98/25108
PRIOR FILING DATE: 1998-12-01
PRIOR APPLICATION NUMBER: PCT/US98/25190
PRIOR FILING DATE: 1998-11-25
PRIOR APPLICATION NUMBER: PCT/US99/05028
PRIOR FILING DATE: 1999-03-08
PRIOR APPLICATION NUMBER: PCT/US99/12252
PRIOR FILING DATE: 1999-06-02
PRIOR APPLICATION NUMBER: PCT/US99/20111
PRIOR FILING DATE: 1999-09-01
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/28301

Query Match 100.0%; Score 554; DB 9; Length 155;
Best Local Similarity 100.0%; Pred. No. 8.4e-52;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MPLSPGLLLLSGATATALLPLEGPTGRDSEHMOEAAQIRKSSLLTFLAMFEMTSOA 60
DB 51 MPLSPGLLLLSGATATALLPLEGPTGRDSEHMOEAAQIRKSSLLTFLAMFEMTSOA 110
QY 61 SAGPLIGEAREVARRQEGAPPOQASARDDMPCRNPFWKTFSSCK 105
DB 111 SAGPLIGEAREVARRQEGAPPOQASARDDMPCRNPFWKTFSSCK 155


```

RESULT 12
US-10-066-273-132
; Sequence 132, Application US/10066273
; Publication No. US20030032062A1
; GENERAL INFORMATION:
; APPLICANT: Avi J. Ashkenazi
; APPLICANT: Kevin P. Baker
; APPLICANT: David A. Botstein
; APPLICANT: Luc Desnoyers
; APPLICANT: Dan L. Eaton
; APPLICANT: Napoleone Ferrara
; APPLICANT: Sherman Fong
; APPLICANT: Wei-Qiang Gao
; APPLICANT: Hanspeter Gerber
; APPLICANT: Mary E. Gerltsen
; APPLICANT: Audrey Goddard
; APPLICANT: Paul J. Godowski
; APPLICANT: Austin L. Gurney
; APPLICANT: Ivar J. Kljavin
; APPLICANT: Jennie P. Mather
; APPLICANT: Mary A. Napier
; APPLICANT: James Pan
; APPLICANT: Nicholas F. Paoni
; APPLICANT: Margaret Ann Roy
; APPLICANT: Timothy A. Stewart
; APPLICANT: Daniel Tumas
; APPLICANT: Colin K. Watanabe
; APPLICANT: P. Mickey Williams
; APPLICANT: William I. Wood
; APPLICANT: Zemin Zang
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3130R1C2
; CURRENT APPLICATION NUMBER: US/10/066,273
; CURRENT FILING DATE: 2002-02-01
; PRIOR APPLICATION NUMBER: 10/002,796
; PRIOR FILING DATE: 2001-11-15
; PRIOR APPLICATION NUMBER: 60/056974
; PRIOR FILING DATE: 1997-08-26
; PRIOR APPLICATION NUMBER: 60/059115
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059263
; PRIOR FILING DATE: 1997-09-18
; PRIOR APPLICATION NUMBER: 60/059588
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/062285
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/062816
; PRIOR FILING DATE: 1997-10-24
; PRIOR APPLICATION NUMBER: 60/063082
; PRIOR FILING DATE: 1997-10-31
; PRIOR APPLICATION NUMBER: 60/063329
; PRIOR FILING DATE: 1997-10-27
; PRIOR APPLICATION NUMBER: 60/063733
; PRIOR FILING DATE: 1997-10-29
; PRIOR APPLICATION NUMBER: 60/066364
; PRIOR FILING DATE: 1997-11-21
; PRIOR APPLICATION NUMBER: 60/066840
; PRIOR FILING DATE: 1997-11-25
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; PRIOR FILING DATE: 1997-12-16
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; PRIOR APPLICATION NUMBER: 60/079294
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; PRIOR FILING DATE: 1998-10-28
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; PRIOR FILING DATE: 1999-08-17
; PRIOR APPLICATION NUMBER: 60/169495
; PRIOR FILING DATE: 1999-12-07
; PRIOR APPLICATION NUMBER: 08/918874
; PRIOR FILING DATE: 1997-08-26
; PRIOR APPLICATION NUMBER: 08/933821
; PRIOR FILING DATE: 1997-09-19
; PRIOR APPLICATION NUMBER: 08/960507
; PRIOR FILING DATE: 1997-10-29
; PRIOR APPLICATION NUMBER: 09/114844
; PRIOR FILING DATE: 1998-07-14
; PRIOR APPLICATION NUMBER: 09/136801
; PRIOR FILING DATE: 1998-08-19
; PRIOR APPLICATION NUMBER: 09/136804
; PRIOR FILING DATE: 1998-08-19
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; PRIOR FILING DATE: 1999-03-03
; PRIOR APPLICATION NUMBER: 09/254460
; PRIOR FILING DATE: 1999-03-09
; PRIOR APPLICATION NUMBER: 09/254465
; PRIOR FILING DATE: 1999-03-05
; PRIOR APPLICATION NUMBER: 09/284663
; PRIOR FILING DATE: 1999-04-15
; PRIOR APPLICATION NUMBER: 09/332928
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;; PRIOR FILING DATE: 1999-10-18
;; PRIOR APPLICATION NUMBER: 09/423741
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;; PRIOR FILING DATE: 2001-05-30
;; PRIOR APPLICATION NUMBER: 09/872035
;; PRIOR FILING DATE: 2001-06-01
;; PRIOR APPLICATION NUMBER: 09/865342
;; PRIOR FILING DATE: 2001-06-19
;; PRIOR APPLICATION NUMBER: PCT/US98/14552
;; PRIOR FILING DATE: 1998-07-14
;; PRIOR APPLICATION NUMBER: PCT/US98/18824
;; PRIOR FILING DATE: 1998-09-10
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;; PRIOR FILING DATE: 1999-09-01
;; PRIOR APPLICATION NUMBER: PCT/US99/20594
;; PRIOR FILING DATE: 1999-09-08
;; PRIOR APPLICATION NUMBER: PCT/US99/21090
;; PRIOR FILING DATE: 1999-09-15
;; PRIOR APPLICATION NUMBER: PCT/US99/21547

Query Match 100.0%; Score 554; DB 9; Length 155;
Best Local Similarity 100.0%; Pred. No. 8,4e-52;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 51 MPUSPGLLLLSGATATTAALPLEGPTGRDSEHMOENAGIRKSSLTFLAMFEWTSQA 110
Qy 61 SAGSLIGEARVARROEGAPPOOSARDRMPCCNFWFKTSSCK 105
Db 111 SAGSLIGEARVARROEGAPPOOSARDRMPCCNFWFKTSSCK 155

RESULT 13
US-10-066-494-132
; Sequence 132, Application US/10066494

;; Publication No. US20030032063A1
;; GENERAL INFORMATION:
;; APPLICANT: Avi J. Ashkenazi
;; APPLICANT: Kevin P. Baker
;; APPLICANT: David A. Botstein
;; APPLICANT: Luc Desnoyers
;; APPLICANT: Dan L. Eaton
;; APPLICANT: Napoleone Ferrara
;; APPLICANT: Sherman Fong
;; APPLICANT: Wei-Qiang Gao
;; APPLICANT: Hanspeter Gerber
;; APPLICANT: Mary E. Gerltsen
;; APPLICANT: Audrey Goddard
;; APPLICANT: Paul J. Godowski
;; APPLICANT: Austin L. Gurney
;; APPLICANT: Ivar J. Kljavin
;; APPLICANT: Jennie P. Mather
;; APPLICANT: Mary A. Napier
;; APPLICANT: James Pan
;; APPLICANT: Nicholas F. Paoni
;; APPLICANT: Margaret Ann Roy
;; APPLICANT: Timothy A. Stewart
;; APPLICANT: Daniel Tunas
;; APPLICANT: Colin K. Watanabe
;; APPLICANT: P. Mickey Williams
;; APPLICANT: William I. Wood
;; APPLICANT: Zemin Zang
;; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;; FILE REFERENCE: P3130R1C9
;; CURRENT APPLICATION NUMBER: US/10/066,494
;; PRIOR FILING DATE: 2002-02-01
;; PRIOR APPLICATION NUMBER: 10/002,796
;; PRIOR FILING DATE: 2001-11-15
;; PRIOR APPLICATION NUMBER: 60/056974
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; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
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; Query Match 100.0%; Score 554; DB 9; Length 155;
; Best Local Similarity 100.0%; Pred No. 8.4e-52;
; Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db 51 MPLSPGLILLLSGATATATLPLEGGPTGRDSEHMQEAGIRKSSILFTLAWFEWTSOA 110
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RESULT 14
US-10-137-865-380
; Sequence 380, Application US/10137865
; Publication No. US20030032155A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
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APPLICANT: Beresini, Maureen
APPLICANT: Deforge, Laura
APPLICANT: Desnoyers, Luc
APPLICANT: Filvaroff, Ellen
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Sherwood, Steven
APPLICANT: Smith, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K
APPLICANT: Wood, William
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3330R1C154
CURRENT APPLICATION NUMBER: US/10/137,865
CURRENT FILING DATE: 2002-05-03
Prior Application removed - See Palm or File Wrapper
NUMBER OF SEQ ID NOS: 550
SEQ ID NO 380
LENGTH: 155
TYPE: PRT
ORGANISM: Homo Sapien
US-10-137-865-380

Query Match 100.0%; Score 554; DB 9; Length 155;
Best Local Similarity 100.0%; Pred. No. 8.4e-52;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MPLSPGLLLLLSGATATAALPLEGGPTGRDSEHMQEAGIRKSSLTFTFLAMPEWMTSOA 60
DB 51 MPLSPGLLLLLSGATATAALPLEGGPTGRDSEHMQEAGIRKSSLTFTFLAMPEWMTSOA 110
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DB 111 SAGPLIGEARVARROGAPPOOSARDRMPCRNFFWKTSSCK 155

RESULT 15
US-10-140-474-380

Sequence 380, Application US/10140474
Publication No. US20030032156a1
GENERAL INFORMATION:

APPLICANT: Baker, Kevin P.
APPLICANT: Beresini, Maureen
APPLICANT: Deforge, Laura
APPLICANT: Desnoyers, Luc
APPLICANT: Filvaroff, Ellen
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Sherwood, Steven
APPLICANT: Smith, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K
APPLICANT: Wood, William
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3330R1C162
CURRENT APPLICATION NUMBER: US/10/140,474
CURRENT FILING DATE: 2002-05-06
Prior Application removed - See Palm or File Wrapper
NUMBER OF SEQ ID NOS: 550
SEQ ID NO 380
LENGTH: 155

TYPE: PRT
ORGANISM: Homo Sapien
US-10-140-474-380

Query Match 100.0%; Score 554; DB 9; Length 155;
Best Local Similarity 100.0%; Pred. No. 8.4e-52;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 111 SAGPLIGEARVARROGAPPOOSARDRMPCRNFFWKTSSCK 155

Search completed: June 23, 2003, 16:06:11
Job time : 49 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: June 23, 2003, 15:54:49 ; Search time 26 Seconds

(without alignments)
118.823 Million cell updates/sec

Title: US-09-766-396-26

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Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0

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Post-processing: Minimum Match 0%

Maximum Match 100%

Database: Issued_Patents_AA:*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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3	295	53.2	112	US-09-001-472-3	Sequence 3, Appl1
4	272	49.1	109	US-08-648-322-5	Sequence 5, Appl1
5	267	48.2	85	US-08-648-322-6	Sequence 6, Appl1
6	257.5	46.5	84	US-08-648-322-10	Sequence 10, Appl1
7	160	28.9	29	US-09-001-472-4	Sequence 4, Appl1
8	119	21.5	29	US-08-648-322-11	Sequence 11, Appl1
9	116	20.9	29	US-08-648-322-7	Sequence 7, Appl1
10	95	17.1	110	US-08-648-322-3	Sequence 3, Appl1
11	85	15.3	14	US-08-648-322-8	Sequence 8, Appl1
12	85	15.3	15	US-08-648-322-23	Sequence 23, Appl1
13	76	13.7	14	US-08-648-322-24	Sequence 24, Appl1
14	71.5	12.9	1493	US-09-423-890-8	Sequence 4, Appl1
15	71.5	12.9	1593	US-08-628-829-4	Sequence 4, Appl1
16	71	12.8	228	US-08-417-495-27	Sequence 27, Appl1
17	71	12.8	228	US-08-284-391B-27	Sequence 27, Appl1
18	71	12.8	228	US-09-218-950-27	Sequence 27, Appl1
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20	71	12.8	228	PCT-US95-00454-27	Sequence 27, Appl1
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ALIGNMENTS

RESULT 1
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; Sequence 2, Application US/09001472

; Patent No. 6232100

; GENERAL INFORMATION:

; APPLICANT: OLSEN, HENRIK S.

; APPLICANT: ROSEN, STEVEN M.

; TITLE OF INVENTION: CORTISTATIN POLYPEPTIDES

; NUMBER OF SEQUENCES: 11

; CORRESPONDENCE ADDRESS:

; ADDRESS: STERN, KESSLER, GOLDSTEIN & FOX P.L.L.C.

; STREET: 1100 NEW YORK AVENUE, SUITE 600

; CITY: WASHINGTON

; STATE: DC

; COUNTRY: US

; ZIP: 20005-3934

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; FILING DATE: Herewith

; CLASSIFICATION:

; PRIORITY APPLICATION DATA:

; APPLICATION NUMBER: US 60/033,980

; FILING DATE: 31-DEC-1996

; PRIORITY APPLICATION DATA:

; APPLICATION NUMBER: US 60/037,386

; FILING DATE: 07-FEB-1997

; ATTORNEY/AGENT INFORMATION:

; NAME: STEFFE, ERIC K.

; REGISTRATION NUMBER: 36,688

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (202) 371-2600

; TELEFAX: (202) 371-2540

; INFORMATION FOR SEQ ID NO: 2:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 105 amino acids

; TYPE: amino acid

; TOPOLOGY: linear

; MOLECULE TYPE: protein

; US-09-001-472-2

Query Match 100.0%; Score 554; DB 4; Length 105;
Best Local Similarity 100.0%; Pred. No. 4.5e-62;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 MPLSPGILLLLLSGATATAALPLEGPTGRDSEHMOEAAGIRKSSLLTFLAMWFWTSQA 60
QY 61 SAGPLIGEARVARROGAPPOOSARDRMPCRNFFWKTSSCK 105
DB 61 SAGPLIGEARVARROGAPPOOSARDRMPCRNFFWKTSSCK 105

RESULT 2

US-08-648-322-2
Sequence 2, Application US/08648322
Patent No. 6074872
GENERAL INFORMATION:
APPLICANT: Sutcliffe, Gregor J.
APPLICANT: de Lecea, Luis
TITLE OF INVENTION: CORTISTATIN: NEUROPEPTIDES,
TITLE OF INVENTION: COMPOSITIONS AND METHODS
NUMBER OF SEQUENCES: 24
CORRESPONDENCE ADDRESSES:
ADDRESSEE: THE SCRIPPS RESEARCH INSTITUTE
STREET: 10666 No. 6074872th Torrey Pines Road, TPC-8
CITY: La Jolla
STATE: California
COUNTRY: US
ZIP: 92037

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/648,322
FILING DATE:
CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:
NAME: Fitting, Thomas
REGISTRATION NUMBER: 34,163
REFERENCE/DOCKET NUMBER: 519.0
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 554-2937
TELEFAX: (619) 554-6312
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 112 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-648-322-2

Query Match 53.2%; Score 295; DB 3; Length 112;
Best Local Similarity 55.8%; Pred. No. 1.5e-29;
Matches 58; Conservative 13; Mismatches 31; Indels 2; Gaps 1;

QY 2 PLSGILLLLSGATATAALPLEGPTGRDSEHMOEAAGIRKSSLLTFLAMWFWTSQA 61
DB 11 PLSGILLLLLSGATATAALPLEGPTGRDSEHMOEAAGIRKSSLLTFLAMWFWTSQA 68
QY 62 AGPLIGEARVARROGAPPOOSARDRMPCRNFFWKTSSCK 105
DB 69 SSTAPEGTPELSKROERPPLOQPPHDKKPCNFFWKTSSCK 112

RESULT 3

US-09-001-472-3
Sequence 3, Application US/09001472
Patent No. 6232100
GENERAL INFORMATION:
APPLICANT: OLSEN, HENRIK S.
APPLICANT: RUBEN, STEVEN M.
TITLE OF INVENTION: CORTISTATIN POLYPEPTIDES
NUMBER OF SEQUENCES: 11
CORRESPONDENCE ADDRESSES:

ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.
STREET: 1100 NEW YORK AVENUE, SUITE 600
CITY: WASHINGTON
STATE: DC
COUNTRY: US
ZIP: 20005-3934

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/001,472
FILING DATE: Herewith
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/037,980
FILING DATE: 31-DEC-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/037,386
FILING DATE: 07-FEB-1997

ATTORNEY/AGENT INFORMATION:
NAME: STEFFE, ERIC K.
REGISTRATION NUMBER: 36,688
REFERENCE/DOCKET NUMBER: 1488.0430002
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 371-2600
TELEFAX: (202) 371-2540
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 112 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-001-472-3

Query Match 53.2%; Score 295; DB 4; Length 112;
Best Local Similarity 55.8%; Pred. No. 1.5e-29;
Matches 58; Conservative 13; Mismatches 31; Indels 2; Gaps 1;

QY 2 PLSGILLLLSGATATAALPLEGPTGRDSEHMOEAAGIRKSSLLTFLAMWFWTSQA 61
DB 11 PLSGILLLLLSGATATAALPLEGPTGRDSEHMOEAAGIRKSSLLTFLAMWFWTSQA 68
QY 62 AGPLIGEARVARROGAPPOOSARDRMPCRNFFWKTSSCK 105
DB 69 SSTAPEGTPELSKROERPPLOQPPHDKKPCNFFWKTSSCK 112

RESULT 4

US-08-648-322-5
Sequence 5, Application US/08648322
Patent No. 6074872
GENERAL INFORMATION:
APPLICANT: Sutcliffe, Gregor J.
APPLICANT: de Lecea, Luis
TITLE OF INVENTION: CORTISTATIN: NEUROPEPTIDES,
TITLE OF INVENTION: COMPOSITIONS AND METHODS
NUMBER OF SEQUENCES: 24
CORRESPONDENCE ADDRESSES:
ADDRESSEE: THE SCRIPPS RESEARCH INSTITUTE
STREET: 10666 No. 6074872th Torrey Pines Road, TPC-8
CITY: La Jolla
STATE: California
COUNTRY: US
ZIP: 92037
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/648,322

FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:

NAME: Fitting, Thomas
REGISTRATION NUMBER: 34,163
REFERENCE/DOCKET NUMBER: 519.0
TELECOMMUNICATION INFORMATION:

TELEPHONE: (619) 554-2937
TELEFAX: (619) 554-6312
INFORMATION FOR SEQ ID NO: 5:

SEQUENCE CHARACTERISTICS:
LENGTH: 109 amino acids
TYPE: amino acid

TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-648-322-5

Query Match 49.1%; Score 272; DB 3; Length 109;
Best Local Similarity 55.8%; Pred. No. 1,le-26;
Matches 58; Conservative 11; Mismatches 29; Indels 6; Gaps 3;

QY 2 PLSPGLLLLSATATAPLPGGPTGRDSEHMOEAGIRKSSLTFLAMFEWTSQAS 61
DB 12 PSAFGILL---MGVASALPLSGPTGDS--VOEATEGR-SGLTFLAMHWMASQAS 65

QY 62 AGPLIGEARREVAROBGAPPOOSARDRMPCHNFEWTFSSCK 105

DB 66 SSTPVGGGTPGLSKSDRPPPOOPPLDKKPKCKNFEWTFSSCK 109

RESULT 5

US-08-648-322-6
Sequence 6, Application US/08648322
Patent No. 6074872

GENERAL INFORMATION:

APPLICANT: Sutcliffe, Gregor J.

TITLE OF INVENTION: CORSTITATIN: NEUROPEPTIDES,

NUMBER OF SEQUENCES: 24

CORRESPONDENCE ADDRES:

ADDRESSEE: THE SCRIPPS RESEARCH INSTITUTE
STREET: 10666 No. 6074872th Torrey Pines Road, TPC-8

CITY: La Jolla
STATE: California

COUNTRY: US
ZIP: 92037

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/648,322

FILING DATE:

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: Fitting, Thomas

REGISTRATION NUMBER: 34,163

REFERENCE/DOCKET NUMBER: 519.0

TELECOMMUNICATION INFORMATION:

TELEPHONE: (619) 554-2937

TELEFAX: (619) 554-6312

INFORMATION FOR SEQ ID NO: 6:

SEQUENCE CHARACTERISTICS:

LENGTH: 85 amino acids
TYPE: amino acid

TOPOLOGY: linear
MOLECULE TYPE: protein

FRAGMENT TYPE: C-terminal
US-08-648-322-6

Query Match 48.2%; Score 267; DB 3; Length 85;

Best Local Similarity 57.5%; Pred. No. 3,3e-26;
Matches 50; Conservative 12; Mismatches 23; Indels 2; Gaps 1;

QY 19 AALPLGGPTGRDSEHMOEAGIRKSSLTFLAMFEWTSQASAGPLIGEARREVAROE 78
DB 1 SALPLSGPTGDS--VQATGGRRTGLTFLAMHWMASQDSSSTAFEGGTPLSKROE 58

QY 79 GAPPOQSARDRMPCHNFEWTFSSCK 105

DB 59 RPLQOPPHRDKKPKCKNFEWTFSSCK 85

RESULT 6

US-08-648-322-10
Sequence 10, Application US/08648322
Patent No. 6074872

GENERAL INFORMATION:

APPLICANT: Sutcliffe, Gregor J.

TITLE OF INVENTION: CORSTITATIN: NEUROPEPTIDES,

NUMBER OF SEQUENCES: 24

CORRESPONDENCE ADDRES:

ADDRESSEE: THE SCRIPPS RESEARCH INSTITUTE
STREET: 10666 No. 6074872th Torrey Pines Road, TPC-8

CITY: La Jolla
STATE: California

COUNTRY: US
ZIP: 92037

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/648,322

FILING DATE:

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: Fitting, Thomas

REGISTRATION NUMBER: 34,163

REFERENCE/DOCKET NUMBER: 519.0

TELECOMMUNICATION INFORMATION:

TELEPHONE: (619) 554-2937

TELEFAX: (619) 554-6312

INFORMATION FOR SEQ ID NO: 10:

SEQUENCE CHARACTERISTICS:

LENGTH: 84 amino acids
TYPE: amino acid

TOPOLOGY: linear
MOLECULE TYPE: protein

FRAGMENT TYPE: C-terminal
US-08-648-322-10

QY 19 AALPLGGPTGRDSEHMOEAGIRKSSLTFLAMFEWTSQASAGPLIGEARREVAROE 78

DB 1 SALPLSGPTGDS--VQATGGRRTGLTFLAMHWMASQDSSSTAFEGGTPLSKROE 57

QY 79 GAPPOQSARDRMPCHNFEWTFSSCK 105

DB 58 RPPPOOPPLDKKPKCKNFEWTFSSCK 84

RESULT 7

US-09-001-472-4
Sequence 4, Application US/09001472
Patent No. 6232100

GENERAL INFORMATION:

APPLICANT: OLSEN, HENRIK S.

APPLICANT: RUBEN, STEVEN M.
TITLE OF INVENTION: CORTISTATIN POLYPEPTIDES
NUMBER OF SEQUENCES: 11
CORRESPONDENCE ADDRESS:
ADDRESSEE: STERN, KESSLER, GOLDSTEIN & FOX P.L.L.C.
STREET: 1100 NEW YORK AVENUE, SUITE 600
CITY: WASHINGTON
STATE: DC
COUNTRY: US
ZIP: 20005-3934
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/001,472
FILING DATE: Herewith
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/033,980
FILING DATE: 31-DEC-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/037,386
FILING DATE: 07-FEB-1997
ATTORNEY/AGENT INFORMATION:
NAME: STEEFE, ERIC K.
REGISTRATION NUMBER: 36,688
REFERENCE/DOCKET NUMBER: 1488.0430002
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 371-2600
TELEFAX: (202) 371-2540
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 29 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-001-472-4

Query Match 28.9%; Score 160; DB 4; Length 29;
Best Local Similarity 96.6%; Pred. No. 2e-13;
Matches 28; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 77 OEGAPPOOSARDRMPCRNFFWKTFSSCK 105
DB 1 OEGAPPOOSARDRMPCRNFFWKTFSSCK 29

RESULT 8
US-08-648-322-11
Sequence 11, Application US/08648322
Patent No. 6074872
GENERAL INFORMATION:
APPLICANT: Sutcliffe, Gregor J.
TITLE OF INVENTION: CORTISTATIN: NEUROPEPTIDES,
TITLE OF INVENTION: COMPOSITIONS AND METHODS
NUMBER OF SEQUENCES: 24
CORRESPONDENCE ADDRESS:
ADDRESSEE: THE SCRIPPS RESEARCH INSTITUTE
STREET: 10666 NO. 6074872th Torrey Pines Road, TPC-8
CITY: La Jolla
STATE: California
COUNTRY: US
ZIP: 92037
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/648,322

FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Fitting, Thomas
REGISTRATION NUMBER: 34,163
REFERENCE/DOCKET NUMBER: 519.0
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 554-2937
TELEFAX: (619) 554-6312
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 29 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
FRAGMENT TYPE: C-terminal
US-08-648-322-11

Query Match 21.5%; Score 119; DB 3; Length 29;
Best Local Similarity 69.0%; Pred. No. 2.8e-08;
Matches 20; Conservative 2; Mismatches 7; Indels 0; Gaps 0;

QY 77 OEGAPPOOSARDRMPCRNFFWKTFSSCK 105
DB 1 OERPPPOQPHLDKPKCNFFWKTFSSCK 29

RESULT 9
US-08-648-322-7
Sequence 7, Application US/08648322
Patent No. 6074872
GENERAL INFORMATION:
APPLICANT: Sutcliffe, Gregor J.
TITLE OF INVENTION: CORTISTATIN: NEUROPEPTIDES,
TITLE OF INVENTION: COMPOSITIONS AND METHODS
NUMBER OF SEQUENCES: 24
CORRESPONDENCE ADDRESS:
ADDRESSEE: THE SCRIPPS RESEARCH INSTITUTE
STREET: 10666 NO. 6074872th Torrey Pines Road, TPC-8
CITY: La Jolla
STATE: California
COUNTRY: US
ZIP: 92037
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/648,322
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Fitting, Thomas
REGISTRATION NUMBER: 34,163
REFERENCE/DOCKET NUMBER: 519.0
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 554-2937
TELEFAX: (619) 554-6312
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 29 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
FRAGMENT TYPE: C-terminal
US-08-648-322-7

Query Match 20.9%; Score 116; DB 3; Length 29;
Best Local Similarity 69.0%; Pred. No. 6.6e-08;
Matches 20; Conservative 2; Mismatches 7; Indels 0; Gaps 0;

QY 77 QGAPPOGARDRMPGCRNFWKTFSSCK 105
Db 1 QERPLQGPBHRDKKCKNFWKTFSSCK 29

RESULT 10

US-08-648-322-3
; Sequence 3, Application US/08648322
; Patent No. 6074872
; GENERAL INFORMATION:
; APPLICANT: Sutcliffe, Gregor J.
; APPLICANT: de Lecea, Luis
; TITLE OF INVENTION: CORTISTATIN: NEUROPEPTIDES,
; TITLE OF INVENTION: COMPOSITIONS AND METHODS
; NUMBER OF SEQUENCES: 24
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: THE SCRIPPS RESEARCH INSTITUTE
; STREET: 10666 No. 6074872th Torrey Pines Road, TPC-8
; CITY: La Jolla
; STATE: California
; COUNTRY: US
; ZIP: 92037
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/648,322
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Fitting, Thomas
; REGISTRATION NUMBER: 34,163
; REFERENCE/DOCKET NUMBER: 519.0
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 554-2937
; TELEFAX: (619) 554-6312
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 110 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: Protein
; FRAGMENT TYPE: C-terminal
; US-08-648-322-3

Query Match 17.1%; Score 95; DB 3; Length 110;
Best Local Similarity 31.5%; Pred. No. 0.00017;
Matches 34; Conservative 13; Mismatches 41; Indels 20; Gaps 5;

QY 17 ATAALPLE---GGPGRGS-----EHMOE--AAGIRKSSLLT-FLAMFEMTSQASAGPL 65
Db 3 AATAACIVLALGGVGTGAPSDPRLRFQKSLAATGKQELAKYFLAELISEPQTEMDAL 62

QY 66 IGEEAREVARRROE-----GAPPOGARDRMPGCRNFWKTFSSCK 104
Db 63 EPEDLPQAAEDDEMLETQRSANSNPAPAPRRKRGCKNFWKTFSSCK 110

RESULT 11

US-08-648-322-8
; Sequence 8, Application US/08648322
; Patent No. 6074872
; GENERAL INFORMATION:
; APPLICANT: Sutcliffe, Gregor J.
; APPLICANT: de Lecea, Luis
; TITLE OF INVENTION: CORTISTATIN: NEUROPEPTIDES,
; TITLE OF INVENTION: COMPOSITIONS AND METHODS
; NUMBER OF SEQUENCES: 24
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: THE SCRIPPS RESEARCH INSTITUTE
; STREET: 10666 No. 6074872th Torrey Pines Road, TPC-8

CITY: La Jolla
STATE: California
COUNTRY: US
ZIP: 92037

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/648,322
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Fitting, Thomas

REGISTRATION NUMBER: 34,163
REFERENCE/DOCKET NUMBER: 519.0
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 554-2937
TELEFAX: (619) 554-6312

INFORMATION FOR SEQ ID NO: 8:

SEQUENCE CHARACTERISTICS:
LENGTH: 14 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: Protein
FRAGMENT TYPE: C-terminal
US-08-648-322-8

Query Match 15.3%; Score 85; DB 3; Length 14;
Best Local Similarity 92.9%; Pred. No. 0.00019;
Matches 13; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 92 PCRNFWKTFSSCK 105
Db 1 PCRNFWKTFSSCK 14

RESULT 12

US-08-648-322-23
; Sequence 23, Application US/08648322
; Patent No. 6074872
; GENERAL INFORMATION:
; APPLICANT: Sutcliffe, Gregor J.
; APPLICANT: de Lecea, Luis
; TITLE OF INVENTION: CORTISTATIN: NEUROPEPTIDES,
; TITLE OF INVENTION: COMPOSITIONS AND METHODS
; NUMBER OF SEQUENCES: 24
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: THE SCRIPPS RESEARCH INSTITUTE
; STREET: 10666 No. 6074872th Torrey Pines Road, TPC-8
; CITY: La Jolla
; STATE: California
; COUNTRY: US
; ZIP: 92037
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/648,322
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Fitting, Thomas
; REGISTRATION NUMBER: 34,163
; REFERENCE/DOCKET NUMBER: 519.0
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 554-2937
; TELEFAX: (619) 554-6312
; INFORMATION FOR SEQ ID NO: 23:
; SEQUENCE CHARACTERISTICS:

LENGTH: 15 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
FRAGMENT TYPE: C-terminal
US-08-648-322-23

Query Match 15.3%; Score 85; DB 3; Length 15;
Best Local Similarity 92.9%; Pred. No. 0.00021;
Matches 13; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 92 PCRNFEKTFSSCK 105
DB 2 PCKNFEKTFSSCK 15

RESULT 13
US-08-648-322-24
Sequence 24, Application US/08648322
Patent No. 6074872

GENERAL INFORMATION:
APPLICANT: Sutcliffe, Gregor J.
APPLICANT: de Leca, Luis
TITLE OF INVENTION: CORSTARTIN: NEUROPEPTIDES,
TITLE OF INVENTION: COMPOSITIONS AND METHODS
NUMBER OF SEQUENCES: 24
CORRESPONDENCE ADDRESS:
ADDRESS: THE SCRIPPS RESEARCH INSTITUTE
STREET: 10666 No. 6074872th Torrey Pines Road, TPC-8
CITY: La Jolla
STATE: California
COUNTRY: US
ZIP: 92037

COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/648.322
FILING DATE:
CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:
NAME: Fitting, Thomas
REGISTRATION NUMBER: 34,163
REFERENCE/DOCKET NUMBER: 519.0
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 554-2937
TELEFAX: (619) 554-6312
INFORMATION FOR SEQ ID NO: 24:
SEQUENCE CHARACTERISTICS:
LENGTH: 14 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
FRAGMENT TYPE: C-terminal

US-08-648-322-24

Query Match 13.7%; Score 76; DB 3; Length 14;
Best Local Similarity 85.7%; Pred. No. 0.0025;
Matches 12; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 92 PCRNFEKTFSSCK 105
DB 1 PCKNFEKTFSSCK 14

RESULT 14
US-09-423-890-8
Sequence 8, Application US/09423890
Patent No. 6312934
GENERAL INFORMATION:
APPLICANT: CADUS PHARMACEUTICAL CORPORATION

TITLE OF INVENTION: HUMAN MEK PROTEIN AND NUCLEIC ACID MOLECULES
TITLE OF INVENTION: AND USES THEREFOR
FILE REFERENCE: CPI-085CPC
CURRENT APPLICATION NUMBER: US/09/423,890
CURRENT FILING DATE: 2000-03-06
PRIOR APPLICATION NUMBER: USSN 60/078,153
PRIOR FILING DATE: 1998-03-16
PRIOR APPLICATION NUMBER: USSN 60/099,165
PRIOR FILING DATE: 1998-09-04
NUMBER OF SEQ ID NOS: 38
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 8
LENGTH: 1493
TYPE: PRT
ORGANISM: Mus musculus
US-09-423-890-8

Query Match 12.9%; Score 71.5; DB 4; Length 1493;
Best Local Similarity 23.4%; Pred. No. 5.2;
Matches 26; Conservative 12; Mismatches 42; Indels 31; Gaps 5;

QY 13 SGATATTAAL--PLEGCPGRDSEHMOEAGIRKS-----SLTFLAMWPEWT 57
DB 138 SGARSPAGAEPPSAAPSGREMEKETLGLHKMEDRPEERMIKELKATCMAPKKHEWL 197
QY 58 SQAS-AGPLI-----GEAREVARROEG-----APPOQARDRMP 92
DB 198 ERRNRGCVVYKPIPIKGDGSEVNNLAEPQEGQAGSAAPAPKGRSPSP 248

RESULT 15
US-08-628-829-4
Sequence 4, Application US/08628829A
Patent No. 6333170

GENERAL INFORMATION:
APPLICANT: Johnson, Gary L.
TITLE OF INVENTION: Method And Product For Regulating Cell Responsiveness To Exter
FILE REFERENCE: CPI-004DVC3
CURRENT APPLICATION NUMBER: US/08/628.829A
CURRENT FILING DATE: 1996-04-05
EARLIER APPLICATION NUMBER: 08/440,421
EARLIER FILING DATE: 1995-05-15
EARLIER APPLICATION NUMBER: 08/323,460
EARLIER FILING DATE: 1994-10-14
EARLIER APPLICATION NUMBER: 08/049,254
EARLIER FILING DATE: 1993-05-15
EARLIER APPLICATION NUMBER: 08/410,602
EARLIER FILING DATE: 1995-04-24
EARLIER APPLICATION NUMBER: 08/472,934
EARLIER FILING DATE: 1995-06-06
NUMBER OF SEQ ID NOS: 25
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 4
LENGTH: 1593
TYPE: PRT
ORGANISM: Mus musculus
US-08-628-829-4

Query Match 12.9%; Score 71.5; DB 4; Length 1593;
Best Local Similarity 23.4%; Pred. No. 5.7;
Matches 26; Conservative 12; Mismatches 42; Indels 31; Gaps 5;

QY 13 SGATATTAAL--PLEGCPGRDSEHMOEAGIRKS-----SLTFLAMWPEWT 57
DB 238 SGARSPAGAEPPSAAPSGREMEKETLGLHKMEDRPEERMIKELKATCMAPKKHEWL 297
QY 58 SQAS-AGPLI-----GEAREVARROEG-----APPOQARDRMP 92
DB 298 ERRNRGCVVYKPIPIKGDGSEVNNLAEPQEGQAGSAAPAPKGRSPSP 348

Search completed: June 23, 2003, 16:03:20
Job time : 27 secs

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OM protein - protein search, using sw model

Run on: June 23, 2003, 15:44:24 ; Search time 73 Seconds

(without alignments)
191.662 Million cell updates/sec

Title: US-09-766-396-26

Perfect score: 554
Sequence: 1 MPLSPGILLLLSGATATATA.....ARRDRMPCRNFFWTFSSCK 105

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 908470 segs, 133250620 residues

Total number of hits satisfying chosen parameters: 908470

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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- 2: /SID2/gcgdata/geneSeq/geneSeq-emb1/AA1981.DAT:*
- 3: /SID2/gcgdata/geneSeq/geneSeq-emb1/AA1982.DAT:*
- 4: /SID2/gcgdata/geneSeq/geneSeq-emb1/AA1983.DAT:*
- 5: /SID2/gcgdata/geneSeq/geneSeq-emb1/AA1984.DAT:*
- 6: /SID2/gcgdata/geneSeq/geneSeq-emb1/AA1985.DAT:*
- 7: /SID2/gcgdata/geneSeq/geneSeq-emb1/AA1986.DAT:*
- 8: /SID2/gcgdata/geneSeq/geneSeq-emb1/AA1987.DAT:*
- 9: /SID2/gcgdata/geneSeq/geneSeq-emb1/AA1988.DAT:*
- 10: /SID2/gcgdata/geneSeq/geneSeq-emb1/AA1989.DAT:*
- 11: /SID2/gcgdata/geneSeq/geneSeq-emb1/AA1990.DAT:*
- 12: /SID2/gcgdata/geneSeq/geneSeq-emb1/AA1991.DAT:*
- 13: /SID2/gcgdata/geneSeq/geneSeq-emb1/AA1992.DAT:*
- 14: /SID2/gcgdata/geneSeq/geneSeq-emb1/AA1993.DAT:*
- 15: /SID2/gcgdata/geneSeq/geneSeq-emb1/AA1994.DAT:*
- 16: /SID2/gcgdata/geneSeq/geneSeq-emb1/AA1995.DAT:*
- 17: /SID2/gcgdata/geneSeq/geneSeq-emb1/AA1996.DAT:*
- 18: /SID2/gcgdata/geneSeq/geneSeq-emb1/AA1997.DAT:*
- 19: /SID2/gcgdata/geneSeq/geneSeq-emb1/AA1998.DAT:*
- 20: /SID2/gcgdata/geneSeq/geneSeq-emb1/AA1999.DAT:*
- 21: /SID2/gcgdata/geneSeq/geneSeq-emb1/AA2000.DAT:*
- 22: /SID2/gcgdata/geneSeq/geneSeq-emb1/AA2001.DAT:*
- 23: /SID2/gcgdata/geneSeq/geneSeq-emb1/AA2002.DAT:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	554	100.0	105	AAW64433	Human cortistatin
2	554	100.0	105	AAW44045	hcs-105 peptide.
3	554	100.0	105	AAW42047	Human preprocortis
4	554	100.0	105	AAE21885	Human preprocortis
5	554	100.0	155	AAU12361	Human PRO350 polyp
6	554	100.0	155	AAU12361	Amino acid sequenc
7	535.5	96.7	189	ABG32878	Novel human diagno
8	461	83.2	85	AAW44044	hcs-85 peptide.
9	450	81.2	88	AAW44056	Mutant hcs peptide
10	340	61.4	62	AAW44043	hcs-62 peptide. S

11	295	53.2	112	19	AAW42033	Rat preprocortista
12	295	53.2	112	23	AAE21870	Rat preprocortista
13	272	49.1	109	19	AAW42034	Mouse preprocortis
14	272	49.1	109	23	AAE21872	Mouse preprocortis
15	267	48.2	85	19	AAW42035	Rat preprocortistat
16	257.5	46.5	84	19	AAW42039	Mouse preprocortistat
17	256	46.2	85	23	AAE21873	Rat preprocortistat
18	252.5	45.6	84	23	AAE21877	Mouse preprocortistat
19	174	31.4	33	19	AAW44053	Mutant hcs peptide
20	166	30.0	29	19	AAW44047	Mutant hcs-29 pept
21	166	30.0	29	19	AAW44042	hcs-29 peptide. S
22	163	29.4	29	19	AAW44046	Mutant hcs-29 pept
23	160	28.9	29	19	AAW64434	Synthetic cortista
24	160	28.9	29	19	AAW44048	Mutant hcs-29 pept
25	158	28.5	28	19	AAW44049	Mutant hcs-29 pept
26	158	28.5	28	19	AAW44050	Mutant hcs-29 pept
27	155	28.0	28	19	AAW44051	hcs-29 peptide
28	143.5	25.9	51	23	AAE21924	Preprocortistatin con
29	121	21.8	23	19	AAW44054	Mutant hcs peptide
30	119	21.5	29	19	AAW42040	A fragment of the
31	119	21.5	29	23	AAE21878	Mouse preprocortistat
32	116	20.9	29	19	AAW42036	A fragment of rat
33	116	20.9	29	23	AAE21874	Rat preprocortistatin
34	111	20.0	29	22	AAW91946	Cortistatin peptid
35	104	18.8	17	19	AAW44016	hcs-17 peptide. S
36	104	18.8	17	22	AAW90999	Somatostatin relat
37	104	18.8	17	22	AAW91000	Somatostatin relat
38	104	18.8	17	23	AAW73260	Somatostatin/corti
39	101	18.2	17	19	AAW44030	Mutated hcs peptid
40	101	18.2	17	19	AAW44024	Mutated hcs peptid
41	101	18.2	17	21	AAW17382	SH3 antagonist pep
42	101	18.2	17	23	AAW73272	Somatostatin/corti
43	99	17.9	16	19	AAW44021	Mutated hcs peptid
44	99	17.9	16	21	AAW17373	SH3 antagonist pep
45	99	17.9	16	23	AAW73263	Somatostatin/corti

ALIGNMENTS

RESULT 1	
AAW64433	
ID	AAW64433 standard; Protein; 105 AA.
XX	
AC	AAW64433;
XX	
DT	16-OCT-1998 (first entry)
XX	
DE	Human cortistatin protein.
XX	
KW	Cortistatin; human; diagnosis; treatment; sleep disorder.
XX	
OS	Homo sapiens.
XX	
FH	Key
FT	Peptide
FT	Protein
FT	Location/Qualifiers
FT	1..19
FT	/label= signal
FT	20..105
FT	/label= cortistatin
XX	
PN	WO9829438-A2.
XX	
PD	09-JUL-1998.
XX	
PF	23-DEC-1997; 97WO-US23784.
XX	
PR	07-FEB-1997; 97US-0037386.
PR	31-DEC-1996; 96US-0033980.
XX	
PA	(HUMA-) HUMAN GENOME SCI INC.
XX	
XX	Olsen HS, Ruben SM;
XX	

DR WPI; 1998-388036/33.
DR N-PSDB; AAV46265.
XX
PT New human cortistatin - useful for, e.g. diagnosing and treating
PT sleep disorders
XX
PS Claim 1; Fig 1; 81pp; English.
XX
CC This sequence represents a novel human cortistatin which can be used
CC in diagnostic methods for detecting variations in cortistatin gene
CC expression. The cortistatin polypeptide can be used for treating
CC an individual in need of an increased level of cortistatin e.g. for the
CC diagnosis and treatment of a sleep disorder.
SQ Sequence 105 AA;
XX
Query Match 100.0%; Score 554; DB 19; Length 105;
Best Local Similarity 100.0%; Pred. No. 8.2e-54;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
DB 1 MPLSPGILLLLSGATATAALPLEGGPTGRDSEHMOEAAGIRKSLTFLAMWFEWTSQA 60
1 MPLSPGILLLLSGATATAALPLEGGPTGRDSEHMOEAAGIRKSLTFLAMWFEWTSQA 60
QY 61 SAGPLIGEAREVARROEGAPPOOSARRDRMPCRNFEFKTSSCK 105
DB 61 SAGPLIGEAREVARROEGAPPOOSARRDRMPCRNFEFKTSSCK 105
RESULT 2
AAM44045
ID AAM44045 standard; peptide; 105 AA.
XX
AC AAM44045;
XX
DT 26-JUN-1998 (first entry)
XX
DE hCS-105 peptide.
XX
OS Corticostatin; somatostatin; hCS-105 peptide; hormone-producing tumour;
KW gastric ulcer; dementia; growth disorder; hormone secretion regulation;
KW digestive system regulation; neural inhibitor; therapy.
XX
OS Synthetic.
XX
PN WO9746668-A1.
XX
PD 11-DEC-1997.
XX
05-JUN-1997; 97WO-JP01911.
XX
15-OCT-1996; 96JP-0272422.
PR 07-JUN-1996; 96JP-0146052.
PR 19-SEP-1996; 96JP-0247710.
XX
PA (TAKE) TAKEDA CHEM IND LTD.
XX
PI Fukusumi S, Hinuma S, Kitada C;
XX
DR WPI; 1998-042177/04.
DR N-PSDB; AAV02054; AAV02055.
XX
PT Peptide having corticostatin or somatostatin activity - useful as
PT anticancer and antiulcer agent, and for control of dementia and
PT growth abnormalities
XX
PS Claim 7; Page 116; 174pp; Japanese.
XX
CC This sequence represents the peptide hCS-105. It is a peptide of the
CC invention, and has corticostatin or somatostatin activity. Antibodies
CC recognising hCS-17 can be used to screen for a compound that modulates,
CC i.e. an agonist or antagonist, the binding of hCS-17 to its receptor, and
CC to assay for hCS-17, e.g. diagnosis. hCS-17, the DNA encoding it or a

CC receptor agonist or antagonist can be used to treat and prevent
CC hormone-producing tumours (e.g. tumours producing gastrin or insulin),
CC gastric ulcers and dementia, regulate sleep and control growth disorders
CC (e.g. acromegaly, gigantism and dwarfism). They can also be used to
CC regulate hormone secretion and the digestive system (e.g. to treat
CC diabetes), and as tumour multiplication or neural inhibitors.
SQ Sequence 105 AA;
XX
Query Match 100.0%; Score 554; DB 19; Length 105;
Best Local Similarity 100.0%; Pred. No. 8.2e-54;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
DB 1 MPLSPGILLLLSGATATAALPLEGGPTGRDSEHMOEAAGIRKSLTFLAMWFEWTSQA 60
1 MPLSPGILLLLSGATATAALPLEGGPTGRDSEHMOEAAGIRKSLTFLAMWFEWTSQA 60
QY 61 SAGPLIGEAREVARROEGAPPOOSARRDRMPCRNFEFKTSSCK 105
DB 61 SAGPLIGEAREVARROEGAPPOOSARRDRMPCRNFEFKTSSCK 105
RESULT 3
AAM42047
ID AAM42047 standard; Protein; 105 AA.
XX
AC AAM42047;
XX
DT 28-MAY-1998 (first entry)
XX
DE Human preprocortistatin homologue.
XX
OS Human preprocortistatin; procortistatin; cortistatin-29; cortistatin-17;
KW agonist; antibody; inhibition; sleep; somatostatin; acetylcholine;
KW neuronal electrical activity; cerebral cortex; antagonist; primer; PCR;
KW immunoassay; hybridisation; amplification; ss.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT CDS 77..395
FT /*tag= a
FT /*product= "Human preprocortistatin"
XX
PN WO9743417-A1.
XX
PD 20-NOV-1997.
XX
15-MAY-1997; 97WO-US08481.
XX
15-MAY-1996; 96US-0648322.
PR 15-MAY-1996; 96US-0648322.
XX
PA (SCRI) SCRIPPS RES INST.
XX
PI De Lecea L, Henriksen SJ, Siggins GR, Sutcliffe JG;
XX
DR WPI; 1998-008886/01.
DR N-PSDB; AAV09164.
XX
PT New cortistatin peptide(s) - used to modulate sleep, detect
PT mutation(s) and screen for drugs
XX
PS Claim 3; Page 112; 128pp; English.
XX
CC This sequence encodes the novel human preprocortistatin protein, which
CC is processed to produce the mature cortistatin proteins referred as
CC human cortistatin-29, and cortistatin-17. The purified cortistatin,
CC and its agonists, are used to induce sleep while its receptor antagonists
CC (particularly antibodies) is used to inhibit sleep. Although cortistatin
CC is structurally similar to somatostatin, it is able to depress neuronal
CC electrical activity, induce low frequency waves in the cerebral cortex,
CC antagonise acetylcholine and thereby enhance slow-wave sleep. The
CC antibodies, and oligonucleotide primers, are used in usual immunoassays

CC and hybridisation/amplification assays to detect or quantify cortistatin
CC (including that administered therapeutically) or its nucleic acid.
CC Oligonucleotides, e.g. antisense molecules, are used in vivo to alter
CC cortistatin gene expression. Detection of a mutation in the cortistatin
CC gene may provide diagnosis of sleep-related or neuronal
CC depression-related disorders or diseases of the brain.
XX
SQ Sequence 105 AA;
Query Match 100.0%; Score 554; DB 19; Length 105;
Best Local Similarity 100.0%; Pred. No. 8.2e-54;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1 MPLSGILLILLSGATATATAPLEGGPTGRDSEHMOEAGIRKSSILTFIAMFWETSQA 60
DB 1 MPLSGILLILLSGATATATAPLEGGPTGRDSEHMOEAGIRKSSILTFIAMFWETSQA 60
OY 61 SAGPLIGEARREVARROEGAPPOQSARRDRMPCRNFWKTFSSCK 105
b 61 SAGPLIGEARREVARROEGAPPOQSARRDRMPCRNFWKTFSSCK 105
RESULT 4
AAE21885
ID AAE21885 standard; Protein; 105 AA.
XX
AC AAE21885;
XX
DT 16-JUL-2002 (first entry)
XX
DE Human preprocortistatin protein.
XX
KM Human; cortistatin; sedative; neuropeptide; screening; therapeutic;
KM sleep disorder; pharmaceutical compound; diagnosis.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT Cleavage-site 75..76
FT Cleavage-site 87..88
XX
PN US2002013456-A1.
PD 31-JAN-2002.
PF 18-JAN-2001; 2001US-0766396.
XX
XX 15-MAY-1997; 97US-0857389.
XX 15-MAY-1996; 96US-0648322.
XX
PA (SCRI) SCRIPPS RES INST.
XX
PI Sutcliffe JG, Lecea LD, Henriksen SJ, Siggins GR;
XX
DR WPI; 2002-328475/36.
DR N-PSDB; AAD34533, AAD34577.
XX
PT New mammalian cortistatin useful in screening and diagnostic methods,
PT and in therapeutic methods related in modulating sleep and sleeping
PT disorders
XX
PS Claim 2; Fig 3b; 50pp; English.
XX
CC The invention relates to a substantially isolated and purified mammalian
CC cortistatin. The cortistatin nucleic acids, proteins, polypeptides
CC and antibodies are useful in screening and diagnostic methods, and in
CC therapeutic methods related to modulation of sleep and sleeping
CC disorders. Cortistatin proteins may be used as immunogen to produce
CC antibodies immunoreactive with cortistatin, in vitro ligand binding
CC specificities, to characterise candidate pharmaceutical compounds useful
CC for modulating cortistatin function, and as therapeutic agents for
CC effecting cortistatin functions. The present sequence is human
CC preprocortistatin protein.

XX
SQ Sequence 105 AA;
Query Match 100.0%; Score 554; DB 23; Length 105;
Best Local Similarity 100.0%; Pred. No. 8.2e-54;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1 MPLSGILLILLSGATATATAPLEGGPTGRDSEHMOEAGIRKSSILTFIAMFWETSQA 60
DB 1 MPLSGILLILLSGATATATAPLEGGPTGRDSEHMOEAGIRKSSILTFIAMFWETSQA 60
OY 61 SAGPLIGEARREVARROEGAPPOQSARRDRMPCRNFWKTFSSCK 105
DB 61 SAGPLIGEARREVARROEGAPPOQSARRDRMPCRNFWKTFSSCK 105
RESULT 5
AAU12361
ID AAU12361 standard; Protein; 155 AA.
XX
AC AAU12361;
XX
DT 24-OCT-2001 (first entry)
XX
DE Human PRO350 polypeptide sequence.
XX
KM Human secretory and transmembrane; PRO; mammalian; cancer; lung;
KM breast; prostate; cervical; tumour necrosis factor-alpha; TNF-alpha;
KM cartilage; ear; proliferation; glucose; free fatty acid; skeletal muscle;
KM adipocyte; A-peptide; factor VIIA; gene therapy.
XX
OS Homo sapiens.
XX
PN WO200140466-A2.
XX
PD 07-JUN-2001.
PF 01-DEC-2000; 2000WO-US32678.
XX
XX 01-DEC-1999; 99WO-US28301.
XX 01-DEC-1999; 99WO-US28634.
XX 02-DEC-1999; 99WO-US28551.
XX 02-DEC-1999; 99WO-US28564.
XX 02-DEC-1999; 99WO-US28565.
XX 09-DEC-1999; 99US-0170262.
XX 16-DEC-1999; 99WO-US30095.
XX 20-DEC-1999; 99WO-US30911.
XX 20-DEC-1999; 99WO-US30999.
XX 30-DEC-1999; 99WO-US31243.
XX 06-JAN-2000; 2000WO-US00277.
XX 06-JAN-2000; 2000WO-US00376.
XX 11-FEB-2000; 2000WO-US03565.
XX 18-FEB-2000; 2000WO-US04341.
XX 18-FEB-2000; 2000WO-US04342.
XX 22-FEB-2000; 2000WO-US04414.
XX 24-FEB-2000; 2000WO-US04914.
XX 24-FEB-2000; 2000WO-US05004.
XX 01-MAR-2000; 2000WO-US05601.
XX 20-MAR-2000; 2000WO-US07377.
XX 21-MAR-2000; 2000WO-US07532.
XX 30-MAR-2000; 2000WO-US08439.
XX 17-MAY-2000; 2000WO-US13705.
XX 22-MAY-2000; 2000WO-US14042.
XX 30-MAY-2000; 2000WO-US14941.
XX 02-JUN-2000; 2000WO-US15264.
XX 10-NOV-2000; 2000WO-US30873.
XX
PA (GERH) GENENTECH INC.
XX
XX Baker KP, Beresini M, Deforge L, Desnoyers L, Filvaroff E, Gao W;
PI Gerritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S;
PI Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;
XX

DR WPI: 2001-408281/43.
 DR N-PSDB: AAS21433.
 PT Isolated, secretory and transmembrane PRO polypeptide used to detect
 PT other PRO polypeptides, link bioactive molecules to cells expressing
 PT PRO polypeptides, and detect the presence of mammalian tumours e.g.
 PT lung, breast, prostate, cervical
 PS Claim 12: Fig 380; 813pp; English.
 XX
 CC AN12172-AN12446 represent novel human secretory and transmembrane
 CC PRO polypeptides. The PRO polypeptides are useful to detect other
 CC PRO polypeptides, to link bioactive molecules to cells expressing
 CC PRO polypeptides, to modulate biological activities of cells expressing
 CC PRO polypeptides, and to detect the presence of mammalian lung, colon,
 CC breast, prostate, rectal, cervical or liver tumours by comparing PRO
 CC polypeptide expression in a cell sample to that in a control sample.
 CC Some of the 275 sequences are also useful to stimulate the release of
 CC tumour necrosis factor-alpha (TNF-alpha) from human blood, the
 CC proliferation or differentiation of chondrocytes, the proliferation or
 CC gene expression in pericyte cells, the release of proteoglycans from
 CC cartilage, the proliferation of inner ear utricular supporting cells or
 CC of T-lymphocytes, the release of a cytokine from peripheral blood
 CC monocytes (PBMCs), or the proliferation of endothelial cells. Some of
 CC the PRO polypeptides may modulate glucose or free fatty acid uptake by
 CC skeletal muscle cells or by adipocytes; or inhibit binding of A-peptide
 CC to factor VIIA. The PRO polypeptides can be used in assays to identify
 CC molecules involved in binding interactions. The polynucleotides encoding
 CC PRO polypeptides can be used to generate probes, antisense RNA/DNA,
 CC transgenic or knock out animals and can be used in gene therapy.
 XX
 SQ Sequence 155 AA;
 Query Match 100.0%; Score 554; DB 22; Length 155;
 Best Local Similarity 100.0%; Pred. No. 1.3e-53;
 Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MPUSPGLLLLSGATTAALPLEGGPTGRDSEHMOEAGIRKSSLLTFLAMFEWTSQA 60
 Db 51 MPUSPGLLLLSGATTAALPLEGGPTGRDSEHMOEAGIRKSSLLTFLAMFEWTSQA 110
 QY 61 SAGPLIGEAREVARROEGAPPOOSARDRMPCNPFWKTFSSCK 105
 Db 111 SAGPLIGEAREVARROEGAPPOOSARDRMPCNPFWKTFSSCK 155
 RESULT 6
 AAB31213
 AAB31213 standard; Protein; 155 AA.
 C
 AAB31213;
 XX 20-APR-2001 (first entry)
 XX
 DE Amino acid sequence of human polypeptide PRO350.
 XX
 KW Human, secreted protein; transmembrane protein; PRO196; PRO444; PRO183;
 KW PRO185; PRO210; PRO215; PRO217; PRO242; PRO288; PRO355; PRO1361; PRO1308;
 KW PRO1183; PRO1272; PRO1419; PRO4999; PRO248; PRO353; PRO1318;
 KW PRO1600; PRO9940; PRO533; PRO301; PRO187; PRO337; PRO1411; PRO4356;
 KW PRO246; PRO265; PRO941; PRO10096; PRO6003; PRO6004; PRO350; PRO2630;
 KW PRO6309; cell death; genetic disorder; transgenic animal; gene therapy.
 XX
 OS Homo sapiens.
 XX
 FH Key Location/Qualifiers
 FH Modified-site 33..37
 FT /note- "amidation site"
 FT Modified-site 35..39
 FT /note- "cAMP- and cGMP-dependent protein kinase
 FT phosphorylation site"
 FT Domain 51..69
 FT /note- "transmembrane domain"

FT Modified-site 64..70
 FT /note- "N-myristoylation site"
 FT Modified-site 75..81
 FT /note- "N-myristoylation site"
 FT Modified-site 90..96
 FT /note- "N-myristoylation site"
 PN W0200077037-A2.
 PD 21-DEC-2000.
 XX
 XX 22-MAY-2000; 2000WO-US14042.
 PF 15-JUN-1999; 99US-0139695.
 PR 20-JUL-1999; 99US-0145070.
 PR 26-JUL-1999; 99US-0145698.
 PR 17-AUG-1999; 99US-0149396.
 PR 01-SEP-1999; 99WO-US20111.
 PR 08-SEP-1999; 99WO-US20594.
 PR 15-SEP-1999; 99WO-US21090.
 PR 15-SEP-1999; 99WO-US21547.
 PR 30-NOV-1999; 99WO-US28313.
 PR 01-DEC-1999; 99WO-US28301.
 PR 02-DEC-1999; 99WO-US28565.
 PR 07-DEC-1999; 99US-0169495.
 PR 05-JAN-2000; 2000WO-US00219.
 PR 18-FEB-2000; 2000WO-US04341.
 PR 18-FEB-2000; 2000WO-US04342.
 PR 22-FEB-2000; 2000WO-US04414.
 PR 01-MAR-2000; 2000WO-US05601.
 PR 02-MAR-2000; 2000WO-US05841.
 PR 20-MAR-2000; 2000WO-US07377.
 PR 30-MAR-2000; 2000WO-US08439.
 PR 15-MAY-2000; 2000WO-US13358.
 PR 17-MAY-2000; 2000WO-US13705.
 XX
 XX (GETH) GENENTECH INC.
 PA Ashkenazi AJ, Baker KP, Botstein DA, Desnoyers L, Eaton DL;
 PI Ferrara N, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard A;
 PI Godowski PJ, Gurney AL, Kijavich IT, Mather JP, Napier MA, Pan J;
 PI Paoni NF, Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM;
 PI Wood WI, Zhang Z;
 XX
 DR WPI: 2001-050091/06.
 DR N-PSDB: AAC87056.
 DR
 XX
 PT Isolated nucleic acid molecule encoding a PRO polypeptide which is a
 PT transmembrane polypeptide is useful for gene therapy and identification
 PT of related polypeptides -
 XX
 PS Claim 12: Fig 70; 244pp; English.
 XX
 CC The present sequence represents a human secreted and transmembrane
 CC polypeptide. The specification describes human polypeptides, designated
 CC PRO196, PRO444, PRO185, PRO210, PRO215, PRO217, PRO242, PRO288,
 CC PRO365, PRO361, PRO1308, PRO1183, PRO1272, PRO1419, PRO4999, PRO7170,
 CC PRO248, PRO353, PRO1318, PRO1600, PRO9940, PRO533, PRO301, PRO187,
 CC PRO337, PRO1411, PRO4356, PRO246, PRO265, PRO941, PRO10096, PRO6003,
 CC PRO6004, PRO350, PRO2630 and PRO6309. The biological activity of cells
 CC can be modulated with agents that bind to these polypeptides, resulting
 CC in the death of the cells. The polynucleotides encoding these
 CC polypeptides are useful in the recombinant production of the
 CC homologous sequences, or to map the gene. They may also be used for
 CC analysing genetic disorders, and to produce transgenic animals which are
 CC useful for the development and screening of therapeutically useful
 CC reagents. The polynucleotides can also be used in gene therapy e.g. to
 CC replace a defective gene.
 XX
 SQ Sequence 155 AA;
 Query Match 100.0%; Score 554; DB 22; Length 155;

Best Local Similarity 100.0%; Pred. No. 1.3e-53;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MPLSGLLLLLSGATATAALPLEGGPTGRDSEHMOEAGIRKSSLLTFLAMWEMTSQA 60
|||||
DB 51 MPLSGLLLLLSGATATAALPLEGGPTGRDSEHMOEAGIRKSSLLTFLAMWEMTSQA 110
|||||

QY 61 SAGPLIGEAREVARROGAPPOQASARDRMPICNFFWKTSSCK 105
|||||
DB 111 SAGPLIGEAREVARROGAPPOQASARDRMPICNFFWKTSSCK 155
|||||

RESULT 7
ABG22878
ID ABG22878 standard; Protein; 189 AA.
XX
AC ABG22878;
XX
DT 18-FEB-2002 (first entry)
XX
DE Novel human diagnostic protein #22869.
XX
KW Human; chromosome mapping; gene mapping; gene therapy; forensic;
KM food supplement; medical imaging; diagnostic; genetic disorder.
XX
OS Homo sapiens.
XX
PN WO200175067-A2.
XX
PD 11-OCT-2001.
XX
PF 30-MAR-2001; 2001WO-US08631.
XX
PR 31-MAR-2000; 2000US-0540217.
XX
PR 23-AUG-2000; 2000US-0649167.
XX
PA (HXSE-) HXSEQ INC.
XX
PI Drmanac RT, Liu C, Tang YT;
XX
DR WPI: 2001-639362/73.
XX
DR N-PSDB; AAS87065.
XX
PT New isolated polynucleotide and encoded polypeptides, useful in
PT diagnostics, forensics, gene mapping, identification of mutations
PT responsible for genetic disorders or other traits and to assess
PT biodiversity -
XX
XX
XX Claim 20; SEQ ID NO 53237; 103bp; English.
XX
XX The invention relates to isolated polynucleotide (I) and
CC polypeptide (II) sequences. (I) is useful as hybridisation probes,
CC polymerase chain reaction (PCR) primers, oligomers, and for chromosome
CC and gene mapping, and in recombinant production of (II). The
CC polynucleotides are also used in diagnostics as expressed sequence tags
CC for identifying expressed genes. (I) is useful in gene therapy techniques
CC to restore normal activity of (II) or to treat disease states involving
CC (II). (II) is useful for generating antibodies against it, detecting or
CC quantitating a polypeptide in tissue, as molecular weight markers and as
CC a food supplement. (II) and its binding partners are useful in medical
CC imaging of sites expressing (II). (I) and (II) are useful for treating
CC disorders involving aberrant protein expression or biological activity.
CC The polypeptide and polynucleotide sequences have applications in
CC diagnostics, forensics, gene mapping, identification of mutations
CC responsible for genetic disorders or other traits to assess biodiversity
CC and to produce other types of data and products dependent on DNA and
CC amino acid sequences. ABG00010-ABG30377 represent novel human
CC diagnostic amino acid sequences of the invention.
CC Note: The sequence data for this patent did not appear in the printed
CC specification, but was obtained in electronic format directly from WIGO
CC at ftp.wigo.int/pub/published_pct_sequences.
XX
XX Sequence 189 AA;

Query Match 96.7%; Score 535.5; DB 22; Length 189;
Best Local Similarity 97.2%; Pred. No. 1.8e-51;
Matches 103; Conservative 1; Mismatches 1; Indels 1; Gaps 1;

QY 1 MPLSGLLLLLSGATATAA-LPLEGGPTGRDSEHMOEAGIRKSSLLTFLAMWEMTSQ 59
|||||
DB 84 MPLSGLLLLLSGATATAA-LPLEGGPTGRDSEHMOEAGIRKSSLLTFLAMWEMTSQ 143
|||||

QY 60 ASAGPLIGEAREVARROGAPPOQASARDRMPICNFFWKTSSCK 105
|||||
DB 144 ASAGPLIGEAREVARROGAPPOQASARDRMPICNFFWKTSSCK 189
|||||

RESULT 8
AAW44044
ID AAW44044 standard; peptide; 85 AA.
XX
AC AAW44044;
XX
DT 26-JUN-1998 (first entry)
XX
DE hCS-85 peptide.
XX
DE Corticostatin; somatostatin; hCS-85 peptide; hormone-producing tumour;
KM gastric ulcer; dementia; growth disorder; hormone secretion regulation;
KM digestive system regulation; neural inhibitor; therapy.
XX
XX Synthetic.
XX
PN WO9746668-A1.
XX
PD 11-DEC-1997.
XX
PF 05-JUN-1997; 97WO-JP01911.
XX
PR 15-OCT-1996; 96JP-0272422.
XX
PR 07-JUN-1996; 96JP-0146052.
XX
PR 19-SEP-1996; 96JP-0247710.
XX
PA (TAKE) TAKEDA CHEM IND LTD.
XX
PI Fukusumi S, Hinuma S, Kitada C;
XX
DR WPI: 1998-042177/04.
XX
DR N-PSDB; AAV02052, AAV02053.
XX
PT Peptide having corticostatin or somatostatin activity - useful as
PT anticancer and antitumor agent, and for control of dementia and
PT growth abnormalities
XX
XX Claim 7; Page 115; 174bp; Japanese.
XX
XX This sequence represents the peptide hCS-85. It is a peptide of the
CC invention, and has corticostatin or somatostatin activity. Antibodies
CC recognising hCS-17 can be used to screen for a compound that modulates,
CC i.e. an agonist or antagonist, the binding of hCS-17 to its receptor, and
CC to assay for hCS-17, e.g. diagnosis. hCS-17, the DNA encoding it or a
CC receptor agonist or antagonist can be used to treat and prevent
CC hormone-producing tumours (e.g. tumours producing gastrin or insulin),
CC gastric ulcers and dementia, regulate sleep and control growth disorders
CC (e.g. acromegaly, gigantism and dwarfism). They can also be used to
CC regulate hormone secretion and the digestive system (e.g. to treat
CC diabetes), and as tumour multiplication or neural inhibitors.
XX
XX Sequence 85 AA;

Query Match 83.2%; Score 461; DB 19; Length 85;
Best Local Similarity 100.0%; Pred. No. 1.3e-43;
Matches 85; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 21 LPLEGGPTGRDSEHMOEAGIRKSSLLTFLAMWEMTSQASAGPLIGEAREVARROGA 80
|||||

Db 1 LPLEGGPTGRDSEHMOAGIRKSSLLTFLAMWFWTSQASAGPLIGEAREVARROGA 60
 QY 81 PPOOSARRDRMPCRNFFWKTSSCK 105
 ||||||||||||||||||
 Db 61 PPOOSARRDRMPCRNFFWKTSSCK 85

RESULT 9
 AAM44056
 ID AAM44056 standard; peptide: 88 AA.

AC AAM44056;

DT 26-JUN-1998 (first entry)

DE Mutant hcs peptide.

XX Corticostatin; somatostatin; hcs peptide; hormone-producing tumour;
 KW gastric ulcer; dementia; growth disorder; hormone secretion regulation;
 KM digestive system regulation; neural inhibitor; therapy.

XX Synthetic.

PN WO974666-A1.

PD 11-DEC-1997.

PF 05-JUN-1997; 97WO-JP01911.

PR 15-OCT-1996; 96JP-0272422.

PR 07-JUN-1996; 96JP-0146052.

PR 19-SEP-1996; 96JP-0247710.

XX (TAKE) TAKEDA CHEM IND LTD.

PI Fukusumi S, Hinuma S, Kitada C;

DR WPI: 1998-042177/04.

DR N-PSDB; AAV02096, AAV02097.

XX Peptide having corticostatin or somatostatin activity - useful as
 PT anticancer and antitumor agent, and for control of dementia and
 PT growth abnormalities

PS Disclosure; Page 118; 174pp; Japanese.

XX This sequence is a mutant hcs peptide. It is a peptide of the
 CC invention, and has corticostatin or somatostatin activity. Antibodies
 CC recognising hcs-17 can be used to screen for a compound that modulates,
 CC i.e. an agonist or antagonist, the binding of hcs-17 to its receptor, and
 CC to assay for hcs-17, e.g. diagnosis. hcs-17, the DNA encoding it or a
 CC receptor agonist or antagonist can be used to treat and prevent
 CC hormone-producing tumours (e.g. tumours producing gastrin or insulin),
 CC gastric ulcers and dementia, regulate sleep and control growth disorders
 CC (e.g. acromegaly, gigantism and dwarfism). They can also be used to
 CC regulate hormone secretion and the digestive system (e.g. to treat
 CC diabetes), and as tumour multiplication or neural inhibitors.

XX Sequence 88 AA;

QY Query Match

Best Local Similarity 81.2%; Score 450; DB 19; Length 88;
 Matches 88; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MPLSPGLLLLSGATATAPLEGPTGRDSEHMOAGIRKSSLLTFLAMWFWTSQA 60
 ||||||||||||||||||

Db 1 MPLSPGLLLLSGATATAPLEGPTGRDSEHMOAGIRKSSLLTFLAMWFWTSQA 60
 ||||||||||||||||||

QY 61 SAGPLIGEAREVARROGAPPOOSARR 88
 ||||||||||||||||||

Db 61 SAGPLIGEAREVARROGAPPOOSARR 88

RESULT 10
 AAM44043
 ID AAM44043 standard; peptide: 62 AA.

AC AAM44043;

DT 26-JUN-1998 (first entry)

DE hcs-62 peptide.

XX Corticostatin; somatostatin; hcs-62 peptide; hormone-producing tumour;
 KW gastric ulcer; dementia; growth disorder; hormone secretion regulation;
 KM digestive system regulation; neural inhibitor; therapy.

XX Synthetic.

PN WO974666-A1.

PD 11-DEC-1997.

PF 05-JUN-1997; 97WO-JP01911.

PR 15-OCT-1996; 96JP-0272422.

PR 07-JUN-1996; 96JP-0146052.

PR 19-SEP-1996; 96JP-0247710.

XX (TAKE) TAKEDA CHEM IND LTD.

PI Fukusumi S, Hinuma S, Kitada C;

DR WPI: 1998-042177/04.

DR N-PSDB; AAV02050, AAV02051.

XX Peptide having corticostatin or somatostatin activity - useful as
 PT anticancer and antitumor agent, and for control of dementia and
 PT growth abnormalities

PS Claim 7; Page 114; 174pp; Japanese.

XX This sequence represents the peptide hcs-62. It is a peptide of the
 CC invention, and has corticostatin or somatostatin activity. Antibodies
 CC recognising hcs-17 can be used to screen for a compound that modulates,
 CC i.e. an agonist or antagonist, the binding of hcs-17 to its receptor, and
 CC to assay for hcs-17, e.g. diagnosis. hcs-17, the DNA encoding it or a
 CC receptor agonist or antagonist can be used to treat and prevent
 CC hormone-producing tumours (e.g. tumours producing gastrin or insulin),
 CC gastric ulcers and dementia, regulate sleep and control growth disorders
 CC (e.g. acromegaly, gigantism and dwarfism). They can also be used to
 CC regulate hormone secretion and the digestive system (e.g. to treat
 CC diabetes), and as tumour multiplication or neural inhibitors.

XX Sequence 62 AA;

QY Query Match

Best Local Similarity 61.4%; Score 340; DB 19; Length 62;
 Matches 62; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 44 SLLTFLAMWFWTSQASAGPLIGEAREVARROGAPPOOSARRDRMPCRNFFWKTSS 103
 ||||||||||||||||||

Db 1 SLLTFLAMWFWTSQASAGPLIGEAREVARROGAPPOOSARRDRMPCRNFFWKTSS 60
 ||||||||||||||||||

QY 104 CK 105
 ||

Db 61 CK 62

RESULT 11

AAM42033
 ID AAM42033 standard; protein: 112 AA.

AC AAM42033;

DT 28-MAY-1998 (first entry)

DB 69 SSTAEGGTPELSKRQERPPLOQPHRDKKPKCKNFEMKTFSSCK 112

RESULT 13

AAW42034 standard; Protein; 109 AA.

AAW42034;

28-MAY-1998 (first entry)

Mouse preprocortistatin protein.

Mouse preprocortistatin: N-terminal signal peptide: procortistatin; cortistatin-29; cortistatin-14; agonist; antibody; inhibition; sleep; somatostatin; neuronal electrical activity; cerebral cortex; antagonist; acetylcholine; primer; PCR; immunoassay; hybridisation; amplification.

Mus sp.

Key Location/Qualifiers

Peptide 1..27 /note= "signal peptide"

Protein 28..109 /note= "mature peptide"

Cleavage-site 79..80 /note= "cleaves to give a putative 29-residue precursor"

Cleavage-site 94..95 /note= "cleaves to give rise to a putative 13 and 14 residue peptide"

MO9743417-A1.

20-NOV-1997.

15-MAY-1997; 97WO-US08481.

15-MAY-1996; 96US-0648322.

(SCRI) SCRIPPS RES INST.

De Lecea L, Henriksen SJ, Siglins GR, Sutcliffe JG;

WPI; 1998-008886/01.

N-PSDB; AAV09156.

New cortistatin peptide(s) - used to modulate sleep, detect mutation(s) and screen for drugs

Claim 1; Page 104; 128pp; English.

This amino acid sequence is the novel mouse preprocortistatin protein.

Cleavage at the N-terminal signal peptide site leads to the formation of procortistatin, which is processed at any of the tandem basic amino acid pairs Lys-Ser, or Lys-Lys to produce the mature cortistatin

proteins referred as mouse cortistatin-29, and cortistatin-14. The purified cortistatin, and its agonists, are used to induce sleep while

its receptor antagonists (particularly antibodies) is used to inhibit sleep. Although cortistatin is structurally similar to somatostatin,

it is able to depress neuronal electrical activity, induce low frequency waves in the cerebral cortex, antagonise acetylcholine and therefore

enhance slow-wave sleep. The antibodies, and oligonucleotide primers, are used in usual immunoassays and hybridisation/amplification assays to

detect or quantify cortistatin (including that administered therapeutically) or its nucleic acid. Oligonucleotides, e.g. antisense

molecules, are used in vivo to alter cortistatin gene expression.

Detection of a mutation in the cortistatin gene may provide diagnosis of sleep-related or neuronal depression-related disorders or diseases of

the brain.

Sequence 109 AA;

Query Match 49.1%; Score 272; DB 19; Length 109; Best Local Similarity 55.8%; Pred. No. 1.7e-22; Matches 58; Conservative 11; Mismatches 29; Indels 6; Gaps 3;

QY 2 PLSPGLLLLLSGATAPALPLEGGPTGRSEHNOEAAGIRKSSLLTFLAMFEMTSQAS 61
| : ||||| : ||||| ||||| : ||| : ||||| ||||| |||||
DB 12 PSARGLLL--WCVASALPLESGPTGDS--VOEATEGR-SCLTFLAMHEMASQAS 65

QY 62 AGPLIGEARVAREGAPPOQARDRMCRNFEMKTFSSCK 105
| : ||||| : ||||| : ||||| ||||| ||||| |||||
DB 66 SSTPVGGTPELSKRQERPPLOQPHRDKKPKCKNFEMKTFSSCK 109

RESULT 14

AAE21872 standard; Protein; 109 AA.

AAE21872;

16-JUL-2002 (first entry)

Mouse preprocortistatin protein.

Mouse; cortistatin; sedative; neuropeptide; screening; therapeutic; sleep disorder; pharmaceutical compound; diagnosis.

Mus sp.

Key Location/Qualifiers

Peptide 1..25 /label= "signal_peptide"

Protein 26..109 /label= "Mature_cortistatin_protein"

Cleavage-site 79..80 /note= "Peptide formed by proteolytic cleavage"

Region 94..95 /note= "Peptide formed by proteolytic cleavage"

Cleavage-site 96..109 /note= "peptide formed by proteolytic cleavage"

US2002013456-A1.

31-JAN-2002.

18-JAN-2001; 2001US-0766396.

15-MAY-1997; 97US-0857389.

15-MAY-1996; 96US-0648322.

(SCRI) SCRIPPS RES INST.

Sutcliffe JG, Lecea LD, Henriksen SJ, Siglins GR;

WPI; 2002-328475/36.

N-PSDB; AAD34525.

New mammalian cortistatin useful in screening and diagnostic methods, and in therapeutic methods related in modulating sleep and sleeping disorders

Claim 2; Fig 3; 50pp; English.

The invention relates to a substantially isolated and purified mammalian cortistatin. The cortistatin nucleic acids, proteins, polypeptides

and antibodies are useful in screening and diagnostic methods, and in therapeutic methods related to modulation of sleep and sleeping

disorders. Cortistatin proteins may be used as immunogen to produce antibodies immunoreactive with cortistatin, in vitro ligand binding

specificities, to characterise candidate pharmaceutical compounds useful for modulating cortistatin function, and as therapeutic agents for

effecting cortistatin functions. The present sequence is mouse preprocortistatin protein.

XX Sequence 109 AA;

Query Match 49.1%; Score 272; DB 23; Length 109;
Best Local Similarity 55.8%; Pred. No. 1.7e-22;
Matches 58; Conservative 11; Mismatches 29; Indels 6; Gaps 3;

QY 2 PLSPGILLLLSGATATAPLEGGTGBDSEHMOEAAGIRKSSLLTFIAMFWETSQAS 61
| : ||||| | : ||||| ||||| : ||| | | ||||| || ||||
DB 12 PSAPGILLLL--WGAASALPLESGPTGDS--VDATGCR--SGLTFIAMHWEVASQAS 65
| : ||||| | : ||||| ||||| : ||| | | ||||| || ||||

QY 62 AGPLIGEARREYARROEGAPPOOSARRDMPCRNFEWKTFSCK 105
| : ||||| | : ||||| ||||| : ||| | | ||||| || ||||
DB 66 SPTPVGCTGTGLSKSGERPPQPPHLDKPKCKNFEWKTFSCK 109
| : ||||| | : ||||| ||||| : ||| | | ||||| || ||||

RESULT 15

AAW42035
ID AAW42035 standard; Protein; 85 AA.

XX AAW42035;

XX DT 28-MAY-1998 (first entry)

XX DE Rat pro cortistatin protein.

XX KM Rat pro cortistatin; prepro cortistatin; cortistatin-29; cortistatin-14;
XX agonist; antibody; inhibition; sleep; somatostatin; acetylcholine;
XX neuronal electrical activity; cerebral cortex; antagonist; primer; PCR;
XX immunoblot; hybridisation; amplification.

XX OS Rattus sp.

XX PN WO9743417-A1.

XX PD 20-NOV-1997.

XX PF 15-MAY-1997; 97WO-US08481.

XX PR 15-MAY-1996; 96US-0648322.

XX PA (SCR1) SCRIPPS RES INST.

XX PI De Lecea L, Henriksen SJ, Siggins GR, Sutcliffe JG;

XX DR WPI; 1998-008886/01.

XX PS New cortistatin peptide(s) - used to modulate sleep, detect
XX mutation(s) and screen for drugs

XX Claim 1; Page 105; 128pp; English.

XX CC This amino acid sequence is the novel rat pro cortistatin protein, which
XX is cleaved to produce three peptides (AAW42036, AAW42037, AAW42038).
XX One of the peptides (AAW42038), designated as rat cortistatin-14, is
XX highly conserved among species e.g. mouse and human. The purified
XX cortistatin, and its agonists, are used to induce sleep while its
XX receptor antagonists (particularly antibodies) is used to inhibit sleep.
XX Although cortistatin is structurally similar to somatostatin, it is able
XX to depress neuronal electrical activity, induce low frequency waves in
XX the cerebral cortex, antagonise acetylcholine and therefore enhance
XX slow-wave sleep. The antibodies, and oligonucleotide primers, are used
XX in usual immunoassays and hybridisation/amplification assays to detect or
XX quantify cortistatin (including that administered therapeutically) or its
XX nucleic acid. Oligonucleotides, e.g. antisense molecules, are used in
XX vivo to alter cortistatin gene expression. Detection of a mutation in
XX the cortistatin gene may provide diagnosis of sleep-related or neuronal
XX depression-related disorders or diseases of the brain.

XX Sequence 85 AA;

Query Match

Best Local Similarity 48.2%; Score 267; DB 19; Length 85;
57.5%; Pred. No. 4.5e-22;

Matches 50; Conservative 12; Mismatches 23; Indels 2; Gaps 1;

QY 19 AALPLEGGTGRDSEHMOEAAGIRKSSLLTFIAMFWETSQASAGPLIGEARREYARROE 78
| : ||||| | : ||||| ||||| : ||| | | ||||| || ||||

DB 1 SALPLESGPTGDS--VDATGCRGTGLTFIAMHWEVASQASSTAFEGTPELSKROE 58
| : ||||| | : ||||| ||||| : ||| | | ||||| || ||||

QY 79 GAPPOOSARRDMPCRNFEWKTFSCK 105
| : ||||| | : ||||| ||||| : ||| | | ||||| || ||||
DB 59 RPLLOQPPHLDKPKCKNFEWKTFSCK 85
| : ||||| | : ||||| ||||| : ||| | | ||||| || ||||

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